

# **SITE INSPECTION**

**Peerless Tube**

**BLOOMFIELD TOWNSHIP, ESSEX COUNTY**

**EPA ID No.: NJD002171122**



New Jersey Department of Environmental Protection  
Division of Hazardous Waste Management  
Bureau of Planning and Assessment

*Agrees w/ CERCLIS qual. 12/10/91  
Priority-High SI 1 G.F.*

248878



PEERLESS TUBE  
58 LOCUST STREET  
BLOOMFIELD TOWNSHIP, ESSEX COUNTY, NEW JERSEY  
EPA ID NO. NJD002171122

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**NARRATIVE**



PEERLESS TUBE  
58 LOCUST AVENUE  
BLOOMFIELD TOWNSHIP, ESSEX COUNTY, NEW JERSEY  
EPA ID NO. NJD002171122

GENERAL INFORMATION AND HISTORY

Peerless Tube is located on Block 129, Lots 60 and 70 and Block 152, Lots 8 and 10 in Bloomfield Township, Essex County. The facility consists of four large buildings on approximately 4 acres. The site is bounded to the north and west by Watsessing Park, to the south by Willow Street and to the east by John F. Kennedy Drive. Land use in the vicinity of the site is developed for light industrial purposes. The estimated population within 1 mile of the site is greater than 30,000. The population within a 4-mile radius of the site is greater than 500,000.

This site has been used by Peerless Tube for the manufacture of aerosol cans and squeeze tubes since they purchased the site in 1920. Information concerning the site's prior owners was unavailable or unknown. Throughout the years Peerless Tube acquired numerous properties which comprise the current facility. In the late 1950s Peerless Tube acquired Smoke-A-Dor, an ashtray manufacturer, which was located in the northern part of the present facility. In the 1970s Peerless Tube acquired the RAJA Razor Company, a razor blade manufacturer. RAJA Razor was located on the western portion of the present facility. Years of operation of both companies are unknown.

In addition, over the years Peerless Tube has made numerous additions to existing buildings. Exact years in which construction took place are unknown.

SITE OPERATIONS OF CONCERN

Peerless Tube's manufacturing operations begin with an aluminum slug extruded by air to form a hollow tube or can. The tube is then moved along a conveyer where it is threaded and cleaned with trichloroethane. After solvent cleaning it is heat dried and painted with solvent based or non-solvent based paints. The tubes are then oven dried and printed with the labels of the various companies which order the tubes. There are approximately 13 lines which produce these aerosol and squeeze tubes operating three 8-hour shifts 5 days a week.

Hazardous waste associated with the manufacturing of Peerless Tube consists of:

1. waste paint generated from the decoration of aluminum tubes and aerosol cans. The facility generates approximately six to seven 55-gallon drums every 30 days (left over paint).
2. waste trichloroethane generated from tube degreasing and still bottoms. The facility used tetrachloroethene in the past but trichloroethane was more successful. At present the facility generates approximately six to twelve 55-gallon drums per month.

3. waste paint mixed with chlorinated solvents from cleanup of decorating equipment. Approximately fifteen to eighteen 55-gallon drums are generated per month.
4. waste oil generated from compressor and several machine maintenance. The facility generates approximately six to ten drums every 90 days.
5. lab packs of various chemicals generated during lab clean out, approximately once a year.

Peerless Tube has a current design capacity of approximately 13,750 gallons for the maintenance of its waste. The design capacity consists of up to 250 55-gallon drums on a concrete storage pad located indoors. No underground or aboveground tanks are used for hazardous waste accumulation. All hazardous waste is maintained on site for less than 90 days and is removed by Safety-Kleen of Linden, New Jersey.

Peerless Tube did at one time maintain five NJDEP, Division of Water Resources (DWR), Bureau of Underground Storage Tanks (BUST) registered underground storage tanks used to store fuel oil and trichloroethene. Tanks ranged in size from 1,500 to 20,000 gallons. Two of the tanks (10,000-gallon trichloroethene and 20,000-gallon No. 4 fuel oil) were sealed in place. The tanks were vacuumed, cleaned and filled with bank-run sand material from November 6 through 16, 1989 by ENSI Inc. of Newark, New Jersey. Soil samples collected by ENSI indicated soil contamination surrounding the 10,000-gallon trichloroethene tank. The three remaining tanks (1,500-gallon No. 4 fuel oil, 3,000-gallon No. 4 fuel oil and 10,800-gallon No. 4 fuel oil) were excavated. The 3,000-gallon fuel oil tank was excavated in September 1986 by Direct Environmental of Newark, New Jersey; soil contamination was observed. The 1,500-gallon and 10,800-gallon fuel oil tanks were excavated by ENSI from November 6 through 16, 1989; soil samples collected revealed no soil contamination.

A review of the historical operation at the Bloomfield facility has revealed several alleged spills or releases of hazardous substances.

On May 17, 1985 an incident report was filed claiming the management and personnel from Peerless Tube were deliberately dumping lacquers and thinners into a pit located behind their plant. An investigation by the NJDEP, Division of Hazardous Waste Management (DHWM), Bureau of Metro Enforcement (BME) did not reveal any evidence of dumping or of a pit. Also, a review of aerial photographs from 1940 through 1986 by the NJDEP, Division of Responsible Party Site Remediation (DRPSR), Bureau of Site Assessment (BSA) did not reveal anything that could be construed as a "pit" located on Peerless Tube's property.

On September 25, 1986 a white substance was observed in Wigwam Brook (adjacent to Peerless Tube) after it passed along Peerless Tube's property. The stream was clear before it flowed by the property. Also, on October 1, 1987 a fuel oil sheen was observed in the stream at the same location. An investigation conducted by the NJDEP, DHWM, BME failed to locate the source of the discharge and no further action was initiated. No water or stream bed samples were collected.

#### GROUNDWATER ROUTE

The area surrounding Peerless Tube is underlain by unconsolidated, moderately permeable, sediment deposited by glaciers or glacial meltdown during the Pleistocene Epoch. The Pleistocene sediment found at the Bloomfield facility is both stratified and unstratified drift. Unstratified drift consists of a heterogeneous mixture of clay, silt, sand, gravel, cobbles and boulders deposited by glacial ice. Stratified drift consists of either glaciofluvial stratified sand or glaciolacustrine laminated silt and clay, depending upon the depositional environment. The Pleistocene sediment has a combined thickness of approximately 0 to 200 feet. Deposits beneath this overburden comprise the Passaic Formation (formerly known as the Brunswick Formation). The Passaic Formation underlies the entire area around the site and most of Essex County. The formation consists primarily of brown, reddish-brown and gray shale, sandy shale and sandstone. The thickness of the formation is not known but is believed to be greater than 6,000 feet.

Groundwater beneath the site exists in the voids of the unconsolidated Quaternary glacial sediments and in the joints and fractures of the Passaic Formation. Groundwater beneath the site flows in a north to south direction. Groundwater use in the vicinity of the site is limited to a few industrial wells screened at depths of 20 to 80 feet.

Peerless Tube maintains two on-site industrial wells (Well Allocation permit No. 2152D) which were temporarily capped by the Passaic Valley Sewerage Commission of Newark, New Jersey in 1987. The wells are maintained for emergency use only as noncontact cooling water for air conditioners and compressors. The two wells' depths are 170 and 260 feet and tap the Passaic Formation, both wells are screened at 35 feet. Peerless Tube does not maintain a NJPDES Permit for groundwater discharge.

There are three monitoring wells on Peerless Tube's property, installed in July of 1990 by Advanced Environmental Boring of East Hanover, New Jersey. Monitoring wells were installed to determine if groundwater contamination resulted from the use of a 10,000-gallon underground trichloroethene tank. Monitoring wells were sampled on July 27, 1990 by Metcalf and Eddy of Somerville, New Jersey and the NJDEP, Division of Hazardous Waste Management (DHWM), Bureau of Planning and Assessment (BPA) now the Division of Responsible Part Site Remediation (DRPSR), Bureau Site Assessment (BSA) on November 2, 1990. Results have indicated volatile organics including trichloroethene (ND to 190 parts per billion [ppb]), 1,2-dichloroethene (ND to 120 ppb) and tetrachloroethene (ND to 18 ppb).

Groundwater within 4 miles of Peerless Tube is used for public and semipublic water supplies and for golf course irrigation, swimming pool supply and noncontact cooling purposes.

The Town of Montclair uses three wells to supplement their surface water supplies during peak demand periods. The wells are 300 feet deep, tap the Passaic Formation and serve up to 54,000 people. The Town of Montclair has agreements for the sale of water to the Township of Little Falls, Glen Ridge Borough and the City of Clifton.

The City of Orange also maintains wells within 4 miles of Peerless Tube. Well depths range from 500 to 551 feet and tap the Passaic Formation. Approximately 32,000 people are serviced by the City of Orange.

The Upper Montclair Country Club (UMCC) and Mountainside Hospital use groundwater for semipublic water supplies. UMCC uses groundwater to supply staff and members with drinking water and Mountainside Hospital uses groundwater to supply patients and staff with drinking water. The populations served by the UMCC and Mountainside Hospital wells are 1,000 and 2,000, respectively.

In addition, 155 acres of golf course property are irrigated by wells drawing from the Passaic Formation.

A potential for off-site wells to become contaminated exists as groundwater contamination has been observed on site. However, further contamination of groundwater is unlikely since chemicals used on-site are stored indoors on concrete and all floor drains have been sealed in storage areas. In addition Peerless Tube has removed or sealed all underground storage tanks which existed on site.

#### SURFACE WATER ROUTE

Peerless Tube is adjacent to Wigwam Brook. Wigwam Brook flows into the Second River approximately 0.25 stream mile northeast of the site. The Second River feeds into the Passaic River approximately 2.5 stream miles east of the site. The Passaic River feeds into Newark Bay approximately 8.0 stream miles southeast of the site. The Passaic River and its tributaries are classified as FW2-NT (freshwater-nontrout). Uses are recreational, industrial, commercial and for irrigation of private golf courses.

There are no records indicating surface water or sediment sampling in the past. Contamination of surface water is possible since an underground fuel oil tank leaked in the past and surface water spill complaints were reported to the NJDEP by Bloomfield Police and neighborhood residents.

Peerless Tube was issued NJPDES Permit No. NJ0029327 on June 15, 1988 to discharge into the surface waters of the state. Actual discharge is noncontact cooling water and stormwater runoff to Wigwam Brook.

There are no drinking water intakes within 15 stream miles and surface water is not used for agricultural irrigation. No freshwater wetlands or coastal wetlands are within 1 mile of the site. There are no federally listed endangered species within 1 mile of the site.

#### AIR ROUTE

Peerless Tube's manufacturing processes throughout the years have caused numerous odor (solvent odors) complaints from surrounding residents. The complainants are usually residents of Watsessing Avenue and Willow Street. The odor is characterized as an intermittent, lacquer odor. The odor source appears to be from several coating lines which use a clear coating (lacquer odor from clear-coating paint) and emissions from drying ovens. Peerless Tube has attempted to eliminate its odor problems by installing corrective devices such as a wet scrubber and charcoal absorption filters.

Peerless Tube, facility ID No. 05066, has 16 New Jersey Bureau of Air Pollution Control permits still in effect. The permits are for various coating lines and ovens used by Peerless Tube. The certificate numbers are: 072479, 072480, 079670, 079671, 072481, 033553, 033554, 033555, 033560, 033561, 033562, 033563, 070602, 068724, 091031, and 091723: They are monitored through the Division of Environmental Quality.

#### SOIL

The soils underlying the site consist primarily of heavily altered and reworked native-lacustrine deposits and fill materials. These glacio-lacustrine deposits are comprised of interbedded fine sands, silts and clays. These deposits were laid down during the Pleistocene Epoch of glaciation.

In September 1986, soil samples were collected from a 3,000-gallon fuel oil tank excavation by Direct Environmental of Newark, New Jersey. Results indicated soil contamination less than 100 ppm of total hydrocarbons (THCs). Approximately 20 cubic yards of contaminated soil was removed by Direct Environmental, the area backfilled with clean soil and a new concrete sidewalk poured.

Soil samples were also collected in November 1989 by ENSI, Inc. of Newark, New Jersey in the areas surrounding two underground storage tank excavations and two underground storage tanks that were sealed in place. Results indicated petroleum hydrocarbon contamination below NJDEP action levels, ranging from 66.7 ppm to 69.9 ppm in areas surrounding the 10,000-gallon trichloroethene tank. Trichloroethene was also detected at levels of 0.260 ppm in the same area. In areas surrounding the remaining three storage tanks, NJDEP action levels for petroleum hydrocarbons were also not exceeded.

During a Pre-Sampling Assessment conducted by the NJDEP, DHWM, BPA on August 30, 1990, above-background readings were observed using an HNu and an Organic Vapor Analyzer (OVA) in the northern portion of the facility. OVA readings ranged from 5 to 80 ppm above-background as calibrated to methane while HNu readings ranged from 20 to 180 ppm above-background as calibrated to benzene. No reading were observed in areas surrounding former underground storage tanks.

On November 3, 1990 soil samples were collected in these areas by the NJDEP, BPA. Results indicated volatile organic contamination with methylene chloride (ND to 35 ppb), 1,2-dichloroethene (ND to 4,700 ppb), trichloroethene (12 to 17,000 ppb) and tetrachloroethene (3 to 37,000 ppb).

#### DIRECT CONTACT

There have been no reported incidents of direct contact with hazardous waste or materials on site. A security fence surrounds the site limiting access onto the property. However, there is a potential for employees to come in contact with hazardous materials currently used and stored on site.

#### FIRE AND EXPLOSION

On October 20, 1986 a 40-ton dumpster ignited on Peerless Tube's property. Green and yellow liquid and crystals were found inside the dumpster. Five firemen were sent to the hospital for sickness and released. No samples of

material in dumpster were collected.

A potential for a fire or explosion to occur does exist from flammable materials stored on site.

#### ADDITIONAL CONSIDERATIONS

There have been no reported incidents of damage to flora and fauna. A potential exists; however, due to past spills and materials currently stored on site.

#### ENFORCEMENT ACTIONS

In 1987 Peerless Tube was issued an Administrative Order by the Division of Environmental Quality for permitting lacquer odors from coating operations to be emitted into the outdoor atmosphere in quantities which resulted in air pollution. The company was required to pay \$4,000 in fines to NJDEP.

In 1987 Peerless Tube was issued an Administrative Order by the Division of Environmental Quality for permitting odors from spray painting and paint coating operations to be emitted into the outdoor atmosphere in quantities which resulted in air pollution. The company was required to pay \$4,000 in fines to NJDEP.

In 1989 Peerless Tube was issued four Administrative Orders by the Division of Environmental Quality for permitting odors from spray painting and paint coating operations to be emitted into the outdoor atmosphere in quantities which resulted in air pollution. The company was required to pay \$24,000 in fines to NJDEP.

#### SUMMARY OF SAMPLING DATA

1.	Sampling date:	November 1989
	Sampled by:	ENSI, Inc. Newark, New Jersey
	Samples:	Twenty-two soil samples
	Laboratory:	Nytest Environmental Inc. (#73469) Port Washington, New York
	Parameters:	Total petroleum hydrocarbons (PHC), and volatile organics scan plus 15.
	Sample description:	Twenty-two soil samples from two underground storage tank excavations and two underground storage tanks sealed in place.
	Contaminants detected:	See Table 1
	QA/QC:	All required QA/QC information was provided to the NJDEP.
	File location:	Attachment V NJDEP, DRPSR, BUST Trenton, New Jersey

2.        Sampling date:                    July 27, 1990

          Sampled by:                    Metcalf & Eddy  
  Bridgewater, New Jersey

          Samples:                        Three groundwater samples

          Laboratory:                    Accutest Laboratories (#12129)  
  Dayton, New Jersey

          Parameters:                    Volatile organics plus 15  
  and PHCs

          Sample description:            Three groundwater samples  
  from MW-1 through MW-3

Contaminants detected:

<u>CONTAMINANT (ppb)</u>	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>
trans-1,2,dichloroethene	26	120	ND
trichloroethene	46	190	ND
petroleum hydrocarbons	ND	ND	ND

ND = NOT DETECTED

QA/QC:                                    All required QA/QC information was  
  submitted to the NJDEP

File location:                        Attachment W  
  NJDEP, DRPSR, BUST  
  Trenton, New Jersey

3.        Sampling date:                    November 2, 1990

          Sampled by:                    NJDEP, DHWM, BPA  
  Robbinsville, New Jersey

          Samples:                        Three groundwater samples  
  and four soil samples

          Laboratory:                    ETC Corporation (#12257)  
  Edison, New Jersey

          Parameters:                    Target compound list

          Sample description:            Three groundwater samples  
  from MW-1 through MW-3  
  and four soil samples collected  
  from along the site's northern  
  border

Contaminants detected:

<u>CONTAMINANTS (ppb)</u>	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>SOIL-1</u>	<u>SOIL-2</u>	<u>SOIL-3</u>	<u>SOIL-4</u>
methylene chloride	ND	ND	ND	35	ND	8	ND
1,2-dichloroethene	77	6	44	150	4,700	ND	ND
trichloroethene	130	26	28	220	17,000	12	11,000
tetrachloroethene	2	18	ND	3	90	3	37,000

ND - NOT DETECTED

QA/QC:

Overall, the data quality was satisfactory and all were accepted with the applied qualifier codes.

File location:

Attachment Y  
NJDEP, DRPSR, BSA  
Robbinsville, New Jersey

RECOMMENDATIONS/CONCLUSIONS

Sampling of three monitoring wells located on site has revealed volatile organic contamination. In addition, soil samples collected along the site's northern border by NJDEP, BSA has also revealed volatile organic contamination. The NJDEP, DRPSR, Bureau of Underground Storage Tanks (BUST) currently monitors all on-site activities. This case should be transferred to the DRPSR, Bureau of State Case Management to review soil and groundwater sampling conducted by BSA and to determine if remediation is required. This case should be also be referred to DRPSR, BUST to review additional groundwater sampling conducted by BSA. No further action under CERCLA is recommended for this site.

Submitted by:

Hayder Camargo, HSMS IV  
Bureau of Site Assessment  
August 14, 1991



**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS**  
**ENSI, INC. SAMPLES FOR UST CLOSURE**  
**PEERLESS TUBE COMPANY BLOOMFIELD, NJ**

SAMPLE DESIGNATION	COMPOUND	CONCENTRATION (ppm)
AT-1	TPHC *	84.9
AT-2	TPHC	<10
AT-3	TPHC	<10
AT-4	TPHC	<10
BT-1	TPHC	699
BV-1	TCE **	0.260
BT-2	TPHC	<10
BV-2	TCE	0.008
BT-3	TPHC	659
BV-3	TCE	0.150
BT-4	TPHC	66.7
BV-4	TCE	<0.001
CT-1	TPHC	<10
CT-2	TPHC	<10
CT-3	TPHC	<10
CT-4	TPHC	<10
CT-5	TPHC	<10
DT-1	TPHC	<10
DT-2	TPHC	<10
DT-3	TPHC	<10
DT-4	TPHC	<10
DT-5	TPHC	46.3

\* Total Petroleum Hydrocarbons

\*\* Trichloroethene, as part of a VO + 15 scan

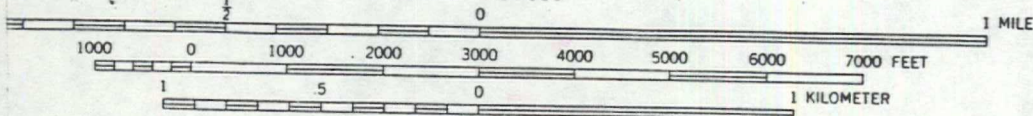
MAPS



# USGS TOPOGRAPHIC MAP



SCALE 1:24 000

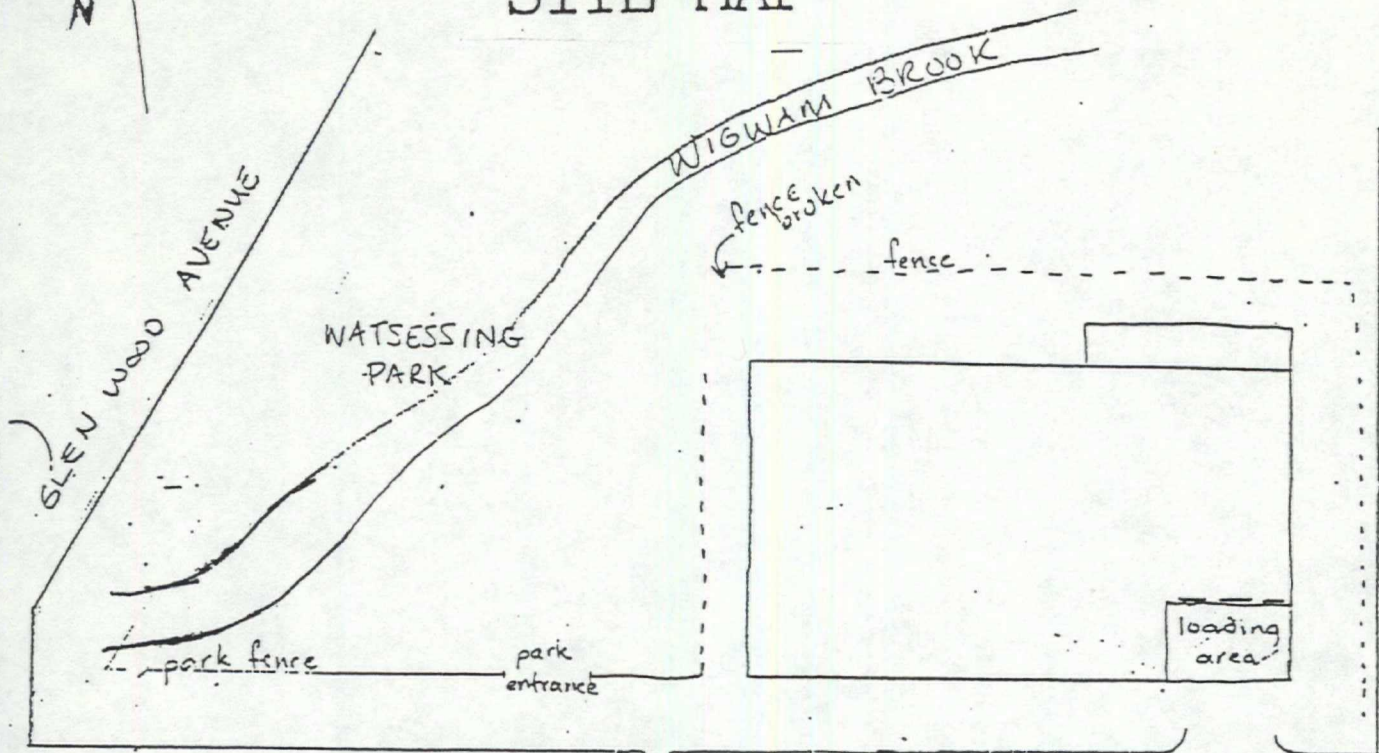


PEERLESS TUBE  
58 LOCUST STREET  
BLOOMFIELD, ESSEX COUNTY  
LATITUDE: 40-47'-09"  
LONGITUDE: 74-12'-06"

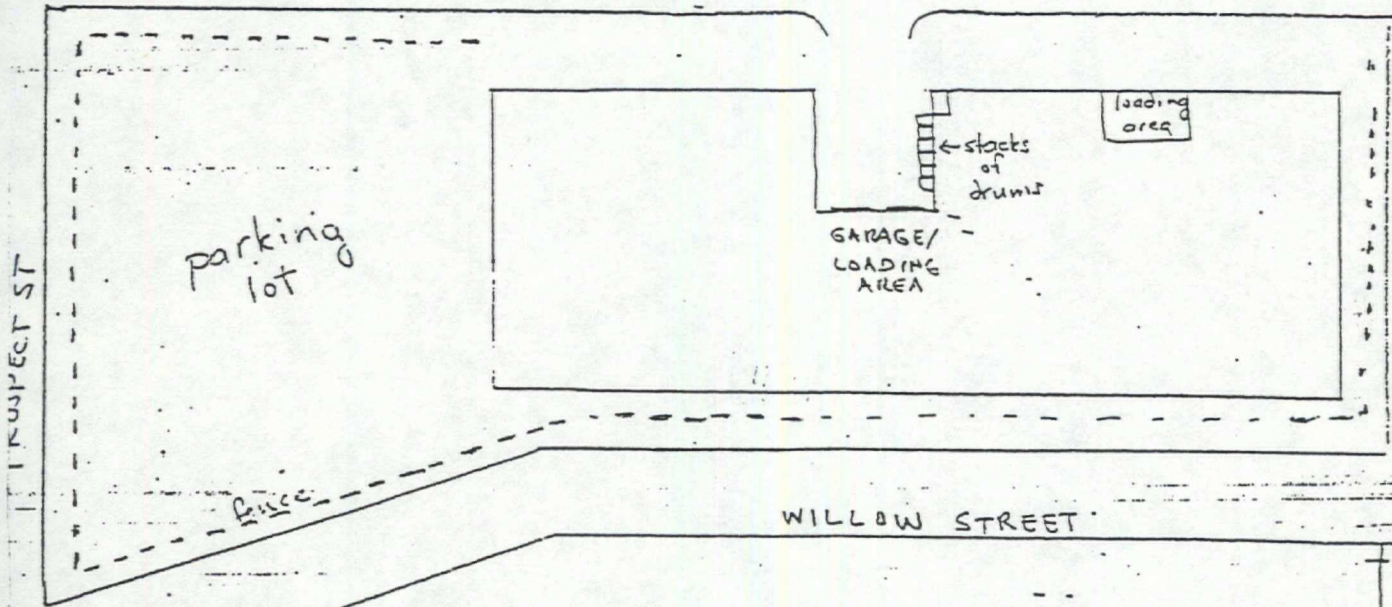


# SITE MAP

N



LOCUST AVE



NO SCALE

PEERLESS TUBE  
58 LOCUST STREET  
BLOOMFIELD, ESSEX COUNTY  
LATITUDE: 40-47'-09"  
LONGITUDE: 74-12'-06"



152

ESSEX COUNTY FAXZ  
Watessing Park  
EXEMPTED  
29,382 Acres  
30

# LOCAL TAX MAP

(152)  
8  
10

129  
60  
70

SITE:  
PEERLESS TUBES

Blocks  
LOTS

JOHN F. KENNEDY DRIVE  
GARDEN STATE  
JOHN

LOCUST AVE.

AVE.

129

SITE

ST.

126

DRIVE

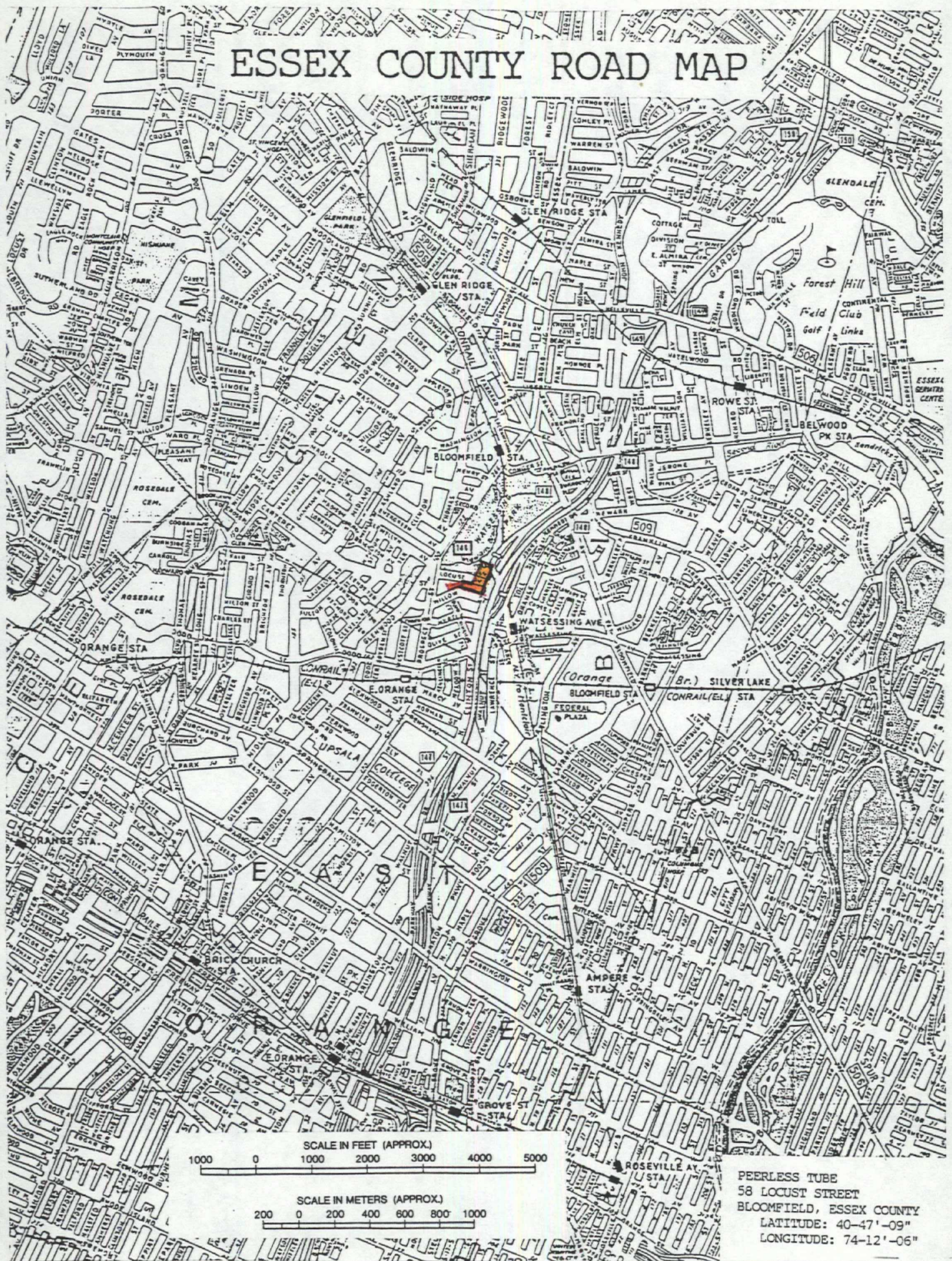
STATE

NO SCALE

PEERLESS TUBE  
58 LOCUST STREET  
BLOOMFIELD, ESSEX COUNTY  
LATITUDE: 40-47'-09"  
LONGITUDE: 74-12'-06"



# ESSEX COUNTY ROAD MAP





# NEW JERSEY ATLAS BASE MAP

SHEET 26



Scale: 1 Mile to an inch.  
Miles

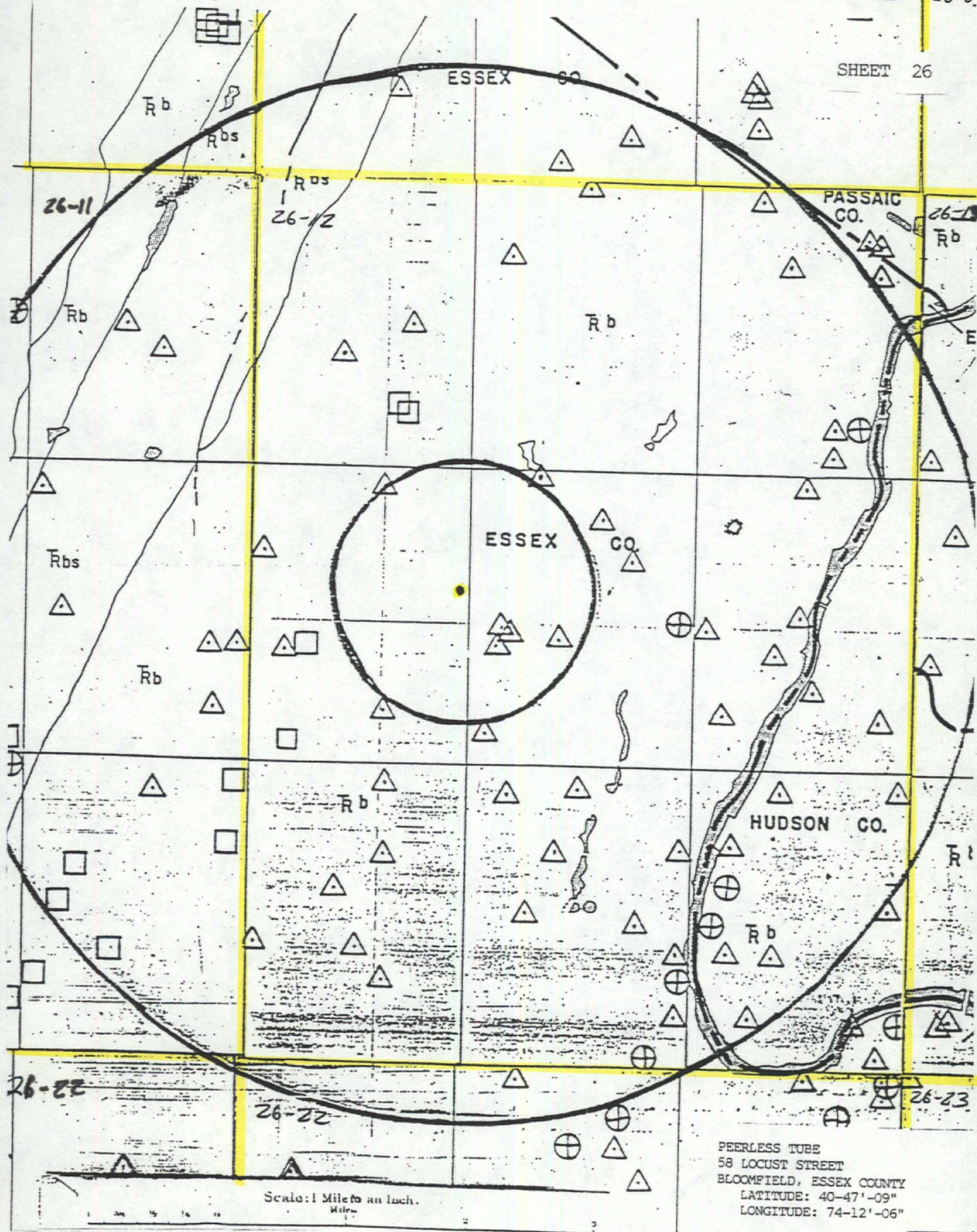
PEERLESS TUBE  
58 LOCUST STREET  
BLOOMFIELD, ESSEX COUNTY  
LATITUDE: 40-47'-09"  
LONGITUDE: 74-12'-06"



# NEW JERSEY ATLAS GEOLOGIC OVERLAY

26-0.

SHEET 26



Scale: 1 Mile to an inch.

PEERLESS TUBE  
58 LOCUST STREET  
BLOOMFIELD, ESSEX COUNTY  
LATITUDE: 40-47'-09"  
LONGITUDE: 74-12'-06"



- △ — INDUSTRIAL WELL YIELD OVER 70 GALLONS PER MINUTE (INCLUDING PRIVATE WELLS)
- — PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE
- ⊕ — UNSUCCESSFUL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE
- — UNSUCCESSFUL SAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE
- ⊞ — NO TEST — NO DATA ON YIELD

——— FAULT (DASHED WHERE INFERRED)

——— CONTACT (DASHED WHERE INFERRED)

——— PHYSIOGRAPHIC PROVINCE BOUNDARY

——— WATER SUPPLY TRANSMISSION LINE

NOTE: WHERE THE PRECAMBRIAN FORMATION BOUNDARIES TERMINATE ABRUPTLY, IT IS THE GEOLOGIST'S OPINION THAT THE GEOLOGICAL COMPLEXITY OF THE AREA PREVENTS FURTHER INTERPRETATIONS.

Kmr — CRETACEOUS MAGOTHY AND RARITAN FORMATIONS (SAND AND CLAY)

Rb — TRIASSIC BRUNSWICK FORMATION

Rc — TRIASSIC CONGLOMERATE BEDS OF THE STOCKTON FORMATION

Rl — TRIASSIC LOCKATONG FORMATION

Rdb — TRIASSIC DIABASE

Rbs — TRIASSIC BASALT FLOWS

Sd — SILURIAN DECKER LIMESTONE AND LONGWOOD SHALE FORMATIONS

Sgp — SILURIAN GREEN POND CONGLOMERATE

Omb — ORDOVICIAN MARTINSBURG SHALE

ok — CAMBRO ORDOVICIAN KITTATINNY LIMESTONE

eh — CAMBRIAN HARDYSTON SANDSTONE

PRECAMBRIAN:

gh — HORNBLende GRANITE WITH PYROXENE GRANITE

ga — ALASKITE

am — AMPHIBOLITE

px — PYROXENE GNEISS

gnq — QUARTZ PLAGIOCLASE GNEISS

gnb — BIOTITE GNEISS

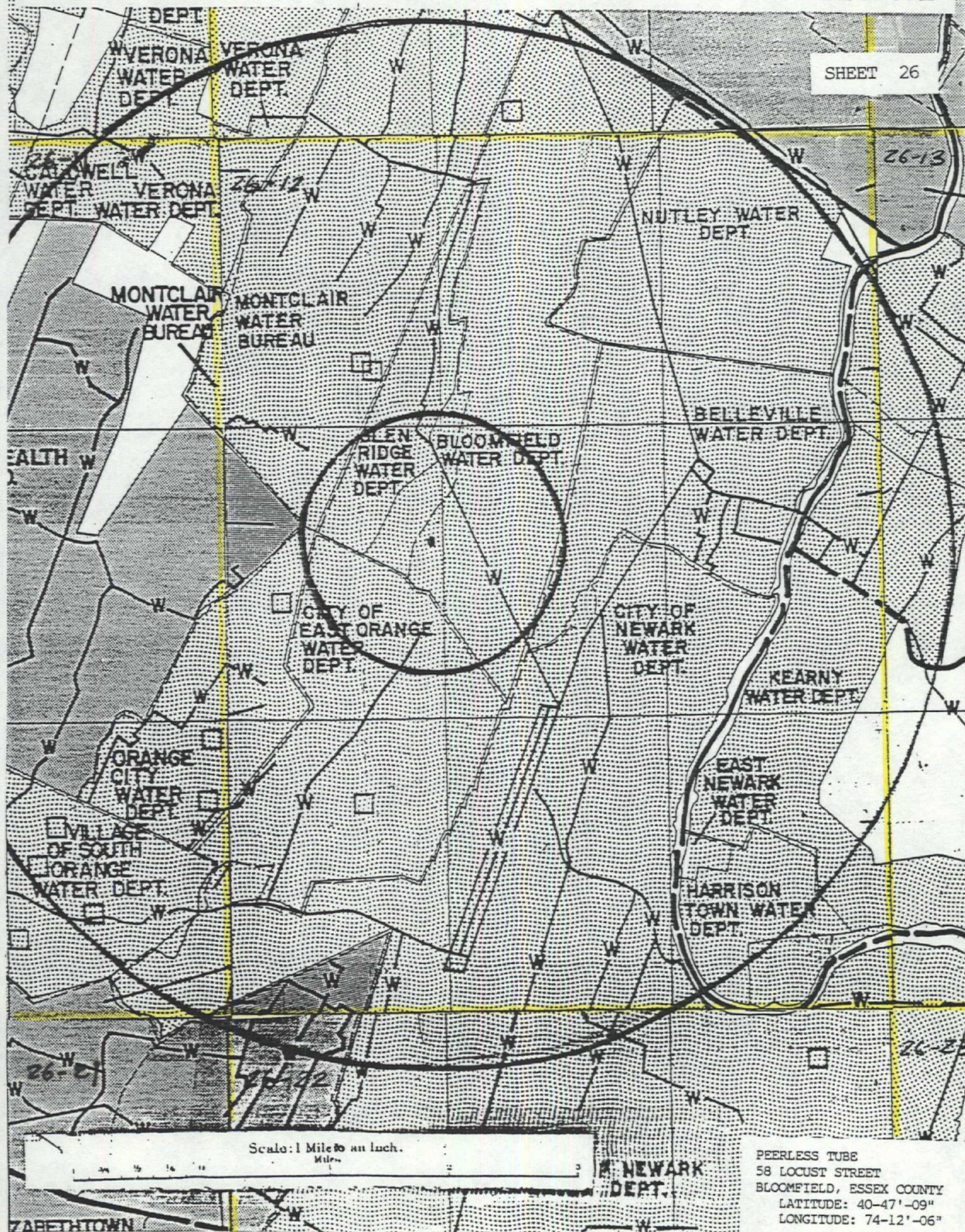
sk — SKARN, GRAPHITE SCHIST

fnd — FORMATION NOT DETERMINED



NEW JERSEY ATLAS WATER SUPPLY OVERLAY

SHEET 26











PEERLESS TUBE  
58 LOCUST STREET  
BLOOMFIELD, ESSEX COUNTY  
LATITUDE: 40-47'-09"  
LONGITUDE: 74-12'-06"






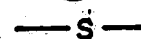


# LEGEND






## WATER SUPPLY

-  AREA SERVED BY PRIVATE WATER SERVICE COMPANIES
-  AREA SERVED BY REGIONALLY OWNED WATER SERVICE COMPANIES
-  AREA SERVED BY MUNICIPALLY OWNED WATER SERVICE COMPANIES
-  AREA NOT PRESENTLY SERVED BY WATER SERVICE
-  PUBLIC SUPPLY WELLS
-  WATER MAIN ACROSS HIGHWAY FOR FUTURE USE
-  SURFACE WATER INTAKE
-  MAJOR WATER MAINS









## SEWAGE, LANDFILL

-  AREA SERVED BY PUBLIC SEWAGE SERVICE
-  AREA NOT PRESENTLY SERVED BY SEWAGE SERVICE
-  SANITARY LANDFILLS
-  SEWAGE TREATMENT PLANTS (CAPACITY < 0.3mgd)
-  SEWAGE TREATMENT PLANTS (CAPACITY ≥ 0.3mgd)
-  MAJOR SEWAGE TRANSMISSION LINES

## DRAINAGE BASIN

-  DRAINAGE BASIN BOUNDARY
-  RIVER BASIN BOUNDARY
-  DRAINAGE BASIN NAME
-  STREAMS AND RIVERS
-  FLOOD PRONE AREAS

## POPULATION

-  COUNTY BOUNDARY
-  MUNICIPAL BOUNDARY
-  POPULATION DENSITY IN PERSONS PER SQUARE MILE
-  AREA IN SQUARE MILES
-  PERCENT AREA OF MUNICIPALITY ON BLOCK
-  MARKET ROADS
-  BUILT UP AREAS
-  STATE BOUNDARY

NOTE : YELLOW = INDUSTRIAL WELLS

ORANGE = MUNICIPAL WELLS

A. Caldwell, Elizabeth, Orange, Roselle

B. Arthur Kill-Rahway, Elizabeth; Passaic-Lower Passaic, Upper Passaic

C. 1. Cranford - Non-recording temperature and precipitation gauges

2. Map No.	Location	Period of Record
38	Peckman Brook at Verona Lake, Verona	7/23/45
3. 245	Passaic River near Livingston (Rt.10)	1964-
253	Peckman River at Verona (Rt. 506)	1964-

Water Quality Stations: (explained in Atlas Sheet description)  
FW2 except where classified FW3

D. Brunswick Formation (Trb), Basalt Flows (Trbs)

E. 1. Physiographic Province: Piedmont

Subdivision: Triassic Lowlands

Major Topographic Features: Red Sandstone Plain, Watchung Ridges, Passaic Valley

Elevations (ft. above sea level): ridges 650, valleys 250

Relief (ft.): 400

2. a. Normal Year: 48"  
Dry Year: 43"  
Wet Year: 57"

b. January: 31°F  
July: 74°F

c. 241 days. Last killing frost: 4/20; first killing frost: 10/20

F. Essex County:

West Essex Park

Eagle Rock Reservation

South Mountain Reservation

East Orange:

Municipal Watershed

Orange City:

Municipal Watershed

G. National Park Service - Edison National Historical Site

H. Edison National Historic Site, West Orange

NOTE:

YELLOW: INDUSTRIAL WELLS

ORANGE: MUNICIPAL WELLS

## I. Water Well Records

<u>Location</u>	<u>Owner</u>	<u>Year Drilled</u>	<u>Screen Setting or Depth of Casing</u>	<u>Total Depth</u>	<u>g/m Yield</u>	<u>Formation</u>
26-11-118	Boro of Essex Fells	1957		96	No test	Q
26-11-134	"	1956		190	95	Trb
26-11-137	Resistoflex Corp.	1968	76	305	250	"
26-11-142	Essex Fells, Boro of			200	255	Q-Trb
26-11-152	Polander, M. & Son	1968	124'9"	389	221	Trb
26-11-157	Kidde, W. & Co.			405	30	"
26-11-185	Twp. of Livingston	1955	66'10"	442	97	"
26-11-185	"	1955	88'10"	313	230	"
26-11-186	"	1955	68'7"	384	290	"
26-11-211	Boro of Essex Fells	1959	61	89	457	Q
26-11-212	"			260	0	Trbs
26-11-213	"			300	0	"
26-11-221	"			248	10	"
26-11-224	"			295	400	Trb
26-11-225	"			80	25	Q
26-11-256/9	"			43	120	"
26-11-266	Nichols, C.W.			510	25	Trbs
26-11-354	Eagle Rock Mfg. Co.			841	110	"
26-11-359	Montclair Golf Club	1964	16	500	138	Trb
26-11-426	A&P	1954		298	145	"
26-11-451	Twp. of Livingston	1955		291	412	"
26-11-464	"	1964	107	114	No test	Q
26-11-512	Whalen, S.(U.S.Cigar Store)			502	60	Trbs
26-11-546	Rahway Water Dept.	1966	22/40	269	390	Trb
26-11-599	Rock Springs Country Club	1956	19'9"	406	25	Trb-Trbs
26-11-611	Essex Co.Country Club	1965	62'11"	72	715	Q
26-11-645	"	1954	21	115	100	Trbs
26-11-668	Nickel Alkaline Battery Div.	1961	46	520	190	Trb
26-11-669	Tell Mfg. Co., Inc.			500	120	"
26-11-695	Carl Del'Spina & Co.	1958	25	400	330	"
26-11-913	East Orange, City of	1958	68	102	700	Q
26-11-717	"	1958	81'9"	116	775	"
26-11-717	"	1958	78	110	700	"
26-11-728	"	1962	125'4-1/2"	171	20	"
26-11-735	St.Barnabas Medical Ctr.	1961	32	819	170	Trbs-Trb
26-11-793	City of Orange			75	1040	Q
26-11-796	"			14	0	Trbs
26-11-797	"			104	700	Q
26-11-819	"	1966	73'6"	132	1404	"
26-11-833	Rock Springs Country Club	1957	22	750	35	Trbs-Trb
26-11-847	City of Orange			99	1480	Q
26-11-896	Village of South Orange			355	220	Trb
26-11-923	Orange Products	1960	35'3"	500	257	"
26-11-933	Orange Water Dept.	1958	35	551	300	"
26-11-939	City of Orange	1967	56'3"	550	350	"
26-11-943	Village of South Orange	1956	45	350	560	"
26-11-945	"			301	400	"
26-11-957	"	1956	21'10"	343	350	"
26-11-971	"			122	275	"

J. Geodetic Control Survey monuments described  
Index Maps 20,21,25,26

A. Elizabeth, Orange

B. Arthur Kill-Elizabeth, Rahway; Hackensack-Hackensack; Passaic-Lower Passaic

C. 2. Map No.	Location	Period of Record
63	Second River at Brighton Ave., East Orange	7/23/38
64	Second River at Bloomfield Ave., Bloomfield	7/23/38
65	Second River at Belleville	1937-1961
66	Second River at Newark Pipe, Belleville	7/23/38
67	Elizabeth River at Irvington	1931-1938
3. 262	Passaic River at Harrison	1967-1971

Water Quality Standards: (explained in Atlas Sheet description)  
FW3, TW2 except where classified TW3

D. Brunswick Formation (Trb), Basalt Flows (Trbs)

E. 1. Physiographic Province: Piedmont  
Subdivision: Triassic Lowlands  
Major Topographic Features: Red Sandstone Plain, Watchung Ridges  
Elevations (ft. above sea level): ridges 650, valleys 0  
Relief (ft.): 650

2. a. Normal Year: 45"  
Dry Year: 37"  
Wet Year: 55"

b. January: 31°F  
July: 74°F

c. 243 days. Last killing frost: 4/15; first killing frost: 10/20

F. Bergen County:

Riverside County Park and Hackensack River Area

Essex County:

Eagle Rock Reservation  
Branch Brook Park

H. Montclair Railroad Terminal, Montclair

Israel Crane House, Montclair

Sydenham House, Newark

Kruegar Mansion, Newark

Penn Station, Newark

First Baptist Peddie Memorial Church, Newark

Saint James A.M.E., Newark

Saint Stephan's Church, Newark

Saint James's Church, Newark

Saint Mary's Church, Newark

Saint Barnabas, Newark

Saint Columba's Church, Newark

Saint John's Church, Newark

Saint Patricks Pro Cathedral, Newark

Queen of Angels Church, Newark

NOTE:

YELLOW: INDUSTRIAL WELLS

ORANGE: MUNICIPAL WELLS

## H. (contd.)

Cathedral Evangelica Reformada, Newark  
 New Point Baptist Church, Newark  
 South Park Presbyterian Church, Newark  
 Pan American C.M.A. Church, Newark  
 First United Methodist Church, Newark  
 House of Prayer Episcopal Church and Rectory, Newark  
 Grace Church, Newark  
 North Reformed Church, Newark  
 The Old First Presbyterian Church, Newark  
 Trinity Episcopal Church, Newark

## I. Water Well Records

<u>Location</u>	<u>Owner</u>	<u>Year Drilled</u>	<u>Screen Setting or Depth of Casing</u>	<u>Total Depth</u>	<u>g/m Yield</u>	<u>Formation</u>
26-12-157	Hahne & Co.			505	240	Trb
26-12-164	Quadrel, Michael	1955	18	151	75	"
26-12-194	Town of Montclair	1966	21/41	300	950	"
26-12-194	Montclair Water Bureau	1966	16/36	300	470	"
26-12-218	Glen Ridge Country Club	1967	40	300	200	"
26-12-222	Bloomfield Savings Bank	1956		145	100	"
26-12-313	Hoffman-LaRoche			902	128	"
26-12-327	Food Fair Stores, Inc.			209	70	"
26-12-334	Kingsland's Paper Mills			400	125	"
26-12-335	Wiggins Plastics, Inc.	1963	24'-3/12"	378	180	"
26-12-338	Federal Telecommunications Lab	1958	39'6"	500	114	"
26-12-386	Liquid Carbonic Corp.			518	100	"
26-12-389	National Yeast Corp.			512	126	Trbs
26-12-394	Federal Leather Co.			802	60	Trb
26-12-417	Schering Corp.			478	127	"
26-12-423	Kidde W. & Co.			400	400	"
26-12-448	Orange Dairy Co.			250	75	"
26-12-449	City of Orange	1970	61'5"	500	524	"
26-12-478	"	1971	56	506	500	"
26-12-486	Colonial Life Ins. Co.			357	323	"
26-12-513	Leonora Corp.	1957	33	200	70	"
26-12-526	Eastern Tool & Mfg. Co.			550	126	"
26-12-537	National Grain & Yeast Corp.			457	125	"
26-12-545	MGM Records (Div. of Loews)	1959	23	211	115	"
26-12-545	"	1960	36	579	120	"
26-12-547	"			400	275	"
26-12-557	Warner Mfg. Co.			395	220	"
26-12-566	Tiffany & Co.			800	50	"
26-12-577	Bloomfield Moulding Co.	1968	18	350	200	"
26-12-622	Mansol Ceramics Co.			250	100	"
26-12-644	Droll Molding Co., Inc.	1962	50	300	80	"
26-12-655	Summit Chemical Prod. Corp.			414	150	"
26-12-657	Crowhurst, A.J. & Sons			83	325	Q
26-12-675	Aluminum Finishing Co.			150	100	Trb
26-12-682	North Newark Ice Co.			250	123	"
26-12-695	V.H. Swenson Co.	1962	49	40	170	"

26-12-723	Mountain Ice Co.			634	300	Trb
26-12-729	Vinton Apartments Inc.	1955	52	255	160	"
26-12-747	Columbia Theaters, Inc.	1953	26	312	140	"
26-12-751	Woolworth & Co.	1965	76'10"	300	80	"
26-12-758	Food Fair Stores	1956	73	214	180	"
26-12-783	Pabst Brewing Co.			535	300	"
26-12-812	Ward Baking Co.			200	111	"
26-12-822	Crabb, W. & Co.			600	300	"
26-12-827	Trent Hat Corp.			200	150	"
26-12-839	Reid Ice Cream Co.			600	100	"
26-12-846	Fagin Brothers Coal Yard			150	100	"
26-12-864	Barton Realty Co., Inc.	1965		385	100	"
26-12-869	Alderney Dairy Co.			450	113	"
26-12-893	Ballantine & Son Ale			1200	0	"
26-12-896	Mutual Benefit Life Ins.Co.	1965	44'8"	312	219	"
26-12-898	Prudential Life Ins. Co.			1225	15	"
26-12-918	Abbey Record Co.	1962	24	697	135	"
26-12-921	Two Guys from Harrison	1959	99	405	628	"
26-12-933	DuPont			202	148	"
26-12-942	N.J. Rolling Mills	1963	99	400	20	"
26-12-944	Harrison Supply Co.	1966	88	174	50	"
26-12-948	Mountain Ice & Fuel Co.			350	122	"
26-12-957	Doelger Brewery			400	175	"
26-12-966	Verzelano, N.	1959	146	235	150	"
26-12-976	Driver-Harris Co.	1946	241	337	600	Q
26-12-994	Acme Refining Co.	1960	144	500	150	Trb
26-12-996	Lister Brothers			1200	0	"
26-12-998	Stanley Tools			637	125	"

J. Geodetic Control Survey monuments described  
Index Maps 21,26; adjacent Index Maps 20,25



SUBJECT TO REVISION

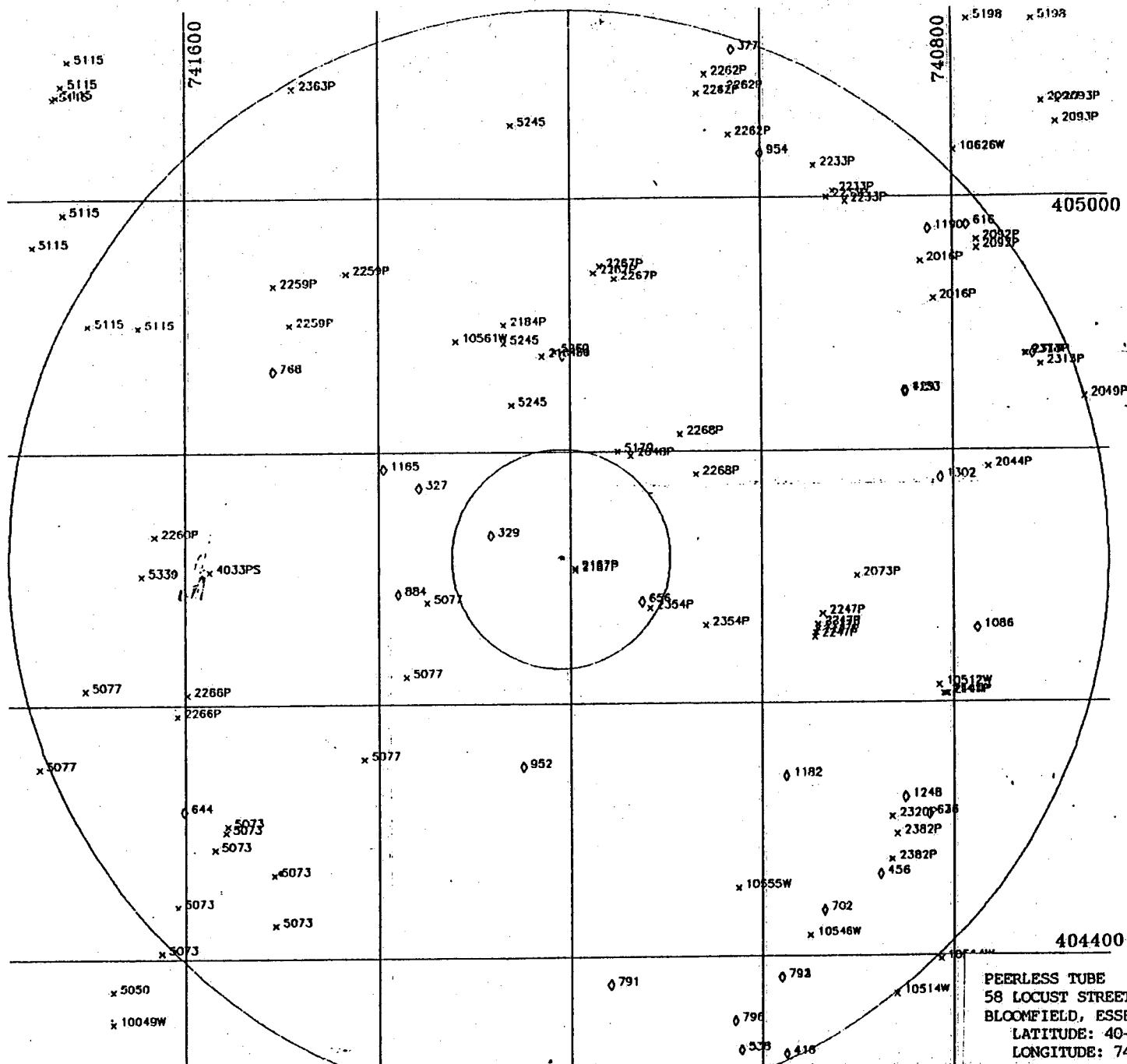
LATITUDE 404709  
LONGITUDE 741206

DRAFT

YELLOW: INDUSTRIAL WELLS  
PINK: MUNICIPAL WELLS

PLOT PRODUCED BY:  
NJDEP  
DIVISION OF WATER RESOURCES  
BUREAU OF WATER ALLOCATION  
CN-029  
TRENTON, NJ 08625

DATE: 05/16/90



PEERLESS TUBE  
58 LOCUST STREET  
BLOOMFIELD, ESSEX COUNTY  
LATITUDE: 40-47'-09"  
LONGITUDE: 74-12'-06"

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTY	MLN	DEPTH	GEO1	GEO2	CAPACITY
10049W	MAPLEWOOD COUNTRY CLUB	2602808	1	404330	741645	T	5.8	13	11	60	CTRB		500
10512W	V.H. SWENSON CO., INC.	2602717	1	404508	740809	F	3.6	17	07	400	GTRB		150
10514W	RONSON METALS CORP.	2603408	1	404358	740808	T	5.0	13	14	300	GTRB		150
	RONSON METALS CORP.	2604993	3	404342	740835	T	5.0	13	14	165			100
10546W	PUBLIC SERVICE ELECTRIC & GAS	4600103	1	404410	740930	F	4.1	17	04	216	GTRB		250
10555W	NEW JERSEY BELL TELEPHONE	2603173	1	404433	741015		3.4	13	14	215	GTRB		80
10561W	HAHNE'S	2600118	2	404852	741312	F	2.2	13	13	350	GTRB		175
10624W	FALSTROM COMPANY, INC.	2601494	1	405022	740759	T	5.2	31	07	300	GTRB		145
2016P	ITT AVIONICS DIVISION	2601834	1	404930	740820	T	4.3	13	16	500	GTRB		150
	ITT AVIONICS DIVISION	2601835	2	404930	740820		4.3	13	16	450	GTRB		150
	ITT AVIONICS DIVISION	2601905	3	404930	740820		4.3	13	16	500	GTRB		150
	ITT AVIONICS DIVISION	2604492	4/SEALED	404912	740812		4.1	13	16	500	GTRB		200
2044P	GRAND UNION CO.	4600002		404752	740738	S	4.0	03	39	300	GTRB		90
2048P	NATIONAL STARCH & CHEMICAL	2604314	1	404758	741122	T	1.1	13	02	410	GTRB		200
2049P	SIKA CORPORATION	2604036	1	404825	740638		5.0	03	32	302	GTRB		220
2073P	VAN DYK, DIV. OF MALLINCKRODT	4600092	1	404700	740900	T	2.7	13	01	352	GTRB		100
	VAN DYK, DIV. OF MALLINCKRODT	4600093	2	404700	740900	T	2.7	13	01	400	GTRB		150
	VAN DYK, DIV. OF MALLINCKRODT	2605113	3	404700	740900	T	2.7	13	01	400	GTRB		150
2092P	GIVALDAN CORPORATION	4600006	6	404936	740745	F	4.7	31	02	297	GTRB		235
	GIVALDAN CORPORATION	4600007	7	404940	740745	F	4.8	31	02	250	GTRB		110
2093P	ORVAL KENT FOOD COMPANY, INC.	2604317	1	405045	740704	F	6.0	03	12	590	GTRB		150
	ORVAL KENT FOOD COMPANY, INC.	2604341	2	405045	740654	S	6.1	03	12	300	GTRB		150
	ORVAL KENT FOOD COMPANY, INC.	2604382	3	405035	740655	T	6.0	03	12	470	GTRB		430
2106P	JERSEY PLASTIC MOLDERS, INC.	2604728	1	404301	741322		4.9	13	09	330	GTRB		320
2141P	FFAFF TOOL & MANUFACTURING CO.	2602162	2	404604	740804	F	3.7	17	07	590	GTRB		175
	FFAFF TOOL & MANUFACTURING CO.	2602735	2	404604	740805	F	3.7	17	07	740	GTRB		140
	FFAFF TOOL & MANUFACTURING CO.	2604269	3	404604	740806	F	3.7	17	07	550	GTRB		155
	FFAFF TOOL & MANUFACTURING CO.	2604711	4	404604	740806	F	3.7	17	07	333	GTRB		
2167P	SCHERING PLOUGH CORP.	2600921	1	404704	741157		0.2	13	02	478	GTRB		160
	SCHERING PLOUGH CORP.	2604498	2	404703	741157		0.2	13	02	400	GTRB		130
2184P	MOUNTAINSIDE HOSPITAL	2602296	1	404845	741218	U	1.8	13	13	400	GTRB		350
	MOUNTAINSIDE HOSPITAL	2604827	2	404900	741242	U	2.2	13	13	402	GTRB		250
2233P	HOFFMANN-LAROCHE INC.	4600155	20	405000	740919	F	4.1	13	16	402	GTRB		100
	HOFFMANN-LAROCHE INC.	4600156	32	405015	740927	F	4.2	31	02	650	GTRB		260
	HOFFMANN-LAROCHE INC.	4600157	33	405003	740915	F	4.2	31	02		GTRB		165
	HOFFMANN-LAROCHE INC.	4600158	37	404958	740907	F	4.2	31	02	720	GTRB		300
2247P	SETON COMPANY	4600160	2	404637	740925	F	2.4	13	14	300	GTRB		200
	SETON COMPANY	4600161	3	404635	740925	F	2.4	13	14	250	GTRB		75
	SETON COMPANY	4600162	4	404633	740926	F	2.4	13	14	200	GTRB		200
	SETON COMPANY	2604969	5	404631	740927	F	2.4	13	14	400	GTRB		500
	SETON COMPANY	2604968	6	404642	740922	F	2.4	13	14	400	GTRB		100
2259P	MONTCLAIR GOLF CLUB	4600163	1	404900	741455	F	3.3	13	22	300	GTRB		225
	MONTCLAIR GOLF CLUB	4600164	2	404900	741455	F	3.3	13	22	360	GTRB		25
	MONTCLAIR GOLF CLUB	4600165	3	404900	741455	F	3.3	13	22	300	GTRB		125
	MONTCLAIR GOLF CLUB	2602883	4	404925	741420	F	3.3	13	20	500	GTRB		150
	MONTCLAIR GOLF CLUB	2615029	5	404919	741505	F	3.6	13	22	75	GGSD		225
2260P	ESSEX COUNTY, DEPT. OF PARKS	2603045	1	404720	741619	S	3.7	13	22	72	GGSD		420
2262P	UPPER MONTCLAIR COUNTRY CLUB	2601199	1	405052	741025		4.5	31	02	490	GTRB		90
	UPPER MONTCLAIR COUNTRY CLUB	2604390	2	405059	741035		4.6	13	02	335	GTRB		132
	UPPER MONTCLAIR COUNTRY CLUB	2604825	3	405030	741020	T	4.1	31	02	300	GTRB		60
	UPPER MONTCLAIR COUNTRY CLUB	FOED	SW	405050	741040	T	4.4	13	02	12	GGSD		1100
2266P	ROCK SPRING CLUB	4600167	1	404555	741605	F	3.8	13	22	406	GTRB		75
	ROCK SPRING CLUB	2601607	2	404555	741605	F	3.8	13	22	750	GTRB		50
	ROCK SPRING CLUB	LAKE		404605	741559	S	3.6	13	22		GTRB		500
2267P	GLEN RIDGE COUNTRY CLUB	2601852	1	404922	741132	S	2.6	13	02	353	GTRB		400

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LL400	DISTANCE	COUNTY	MUN	DEPTH	GE01	GE02	CAPACITY
	GLEN RIDGE COUNTRY CLUB	2604134	2	404925	741145	S	2.5	13	02	300	GTRB		200
	GLEN RIDGE COUNTRY CLUB	4600168	3	404928	741141	F	2.7	13	08	400	GTRB		10
2268P	FOREST HILL FIELD CLUB	2604258	1	404749	741041	S	1.5	13	02	238	GTRB		60
	FOREST HILL FIELD CLUB	POND		404808	741051	F	1.6	13	02	14	SP		1200
2313P	PENCO OF LYNHURST INC.	4600172	1	404845	740714		4.6	03	32	267	GTRB		110
	PENCO OF LYNHURST INC.	4600173	2	404845	740715		4.6	03	32	313	GTRB		185
	PENCO OF LYNHURST INC.	2601699	3	404845	740715	F	4.6	03	32	410	GTRB		150
	PENCO OF LYNHURST INC.	2603804	4	404840	740705	F	4.7	03	32	352	GTRB		185
2320P	HONEYCOMB PLASTICS CORP.	4600182	1	404506	740838	S	3.8	17	07	500	GTRB		210
	HONEYCOMB PLASTICS CORP.	2602384	2	404506	740838	S	3.8	17	07	700	GTRB		500
2354P	ESSEX COUNTY DEPT. OF PARKS	2604894	2	404645	741110	T	0.9	13	14	450	GTRB		180
	ESSEX COUNTY DEPT. OF PARKS	4600216	1	404637	741035	S	1.5	13	14	200	GTRB		240
2363P	ESSEX COUNTY HOSPITAL CENTER	2604891	10	405053	741453		4.9	13	04	524	GTRB		250
	ESSEX COUNTY HOSPITAL CENTER	2604849	9	405053	741453		4.9	13	04	524	GTRB		200
	ESSEX COUNTY HOSPITAL CENTER	4602613	8	405053	741453		4.9	13	04	200	GTRB		200
	ESSEX COUNTY HOSPITAL CENTER	4602612	7	405053	741453		4.9	13	04	200	GTRB		200
2382P	CAPITAL CITY PRODUCTS COMPANY	2604523	NORTH WELL	404446	740838	S	4.1	17	07	584	GTRB		500
	CAPITAL CITY PRODUCTS COMPANY	2604614	SOUTH WELL	404458	740835	F	4.0	17	07	615	GTRB		1000
4033PS	ESSEX COUNTY COUNTRY CLUB	POND		404703	741545	T	3.2	13	22		SY		
4057PS	RTC PROPERTIES INC.	PASSAIC RIVER	INTAKE 1	404325	740708	F	6.1	17	07		SPLMP		1500
5050	ELIZABETHTOWN WATER COMPANY	4600039	1	404345	741645		5.6	39	17	124	GTRB		100
	ELIZABETHTOWN WATER COMPANY	4600040	1A	404345	741645		5.6	39	17	138	GTRB		250
	ELIZABETHTOWN WATER COMPANY	4600041	2A	404345	741645		5.6	39	17	158	GTRB		250
	ELIZABETHTOWN WATER COMPANY	4600042	5A	404345	741645		5.6	39	17	140	GTRB		150
	ELIZABETHTOWN WATER COMPANY	4600043	6A	404345	741645		5.6	39	17	141	GTRB		300
	ELIZABETHTOWN WATER COMPANY	4600044	7	404345	741645		5.6	39	17	420	GTRB		100
	ELIZABETHTOWN WATER COMPANY	4600045	7A	404345	741645		5.6	39	17	140	GTRB		250
	ELIZABETHTOWN WATER COMPANY	4600046	8R	404345	741645		5.6	39	17	130	GTRB		150
	ELIZABETHTOWN WATER COMPANY	4600047	9R	404345	741645		5.6	39	17	130	GTRB		200
	ELIZABETHTOWN WATER COMPANY	4600048	11	404345	741645		5.6	39	17	162	GTRB		100
	ELIZABETHTOWN WATER COMPANY	4600049	12A	404345	741645		5.6	39	17	200	GTRB		100
	ELIZABETHTOWN WATER COMPANY	4600050	21R	404345	741645		5.6	39	17	130	GTRB		200
	ELIZABETHTOWN WATER COMPANY	4600052	36	404345	741645		5.6	39	17	200	GTRB		100
	ELIZABETHTOWN WATER COMPANY	4600053	42	404345	741645		5.6	39	17	200	GTRB		125
	ELIZABETHTOWN WATER COMPANY	4600054	47	404345	741645		5.6	39	17	200	GTRB		125
	ELIZABETHTOWN WATER COMPANY	4600055	48	404345	741645		5.6	39	17	200	GTRB		100
	ELIZABETHTOWN WATER COMPANY	4600056	50	404345	741645		5.6	39	17	200	GTRB		150
	ELIZABETHTOWN WATER COMPANY	4600057	53R	404345	741645		5.6	39	17	107	GTRB		100
	ELIZABETHTOWN WATER COMPANY	4600058	54	404345	741645		5.6	39	17	98	GTRB		250
	ELIZABETHTOWN WATER COMPANY	4600059	55	404345	741645		5.6	39	17	103	GTRB		500
	ELIZABETHTOWN WATER COMPANY	2604082	LAYNE 3	404345	741645		5.6	39	17	301	GTRB		300
	ELIZABETHTOWN WATER COMPANY	2604083	LAYNE 6	404345	741645		5.6	39	17	303	GTRB		200
5073	SOUTH ORANGE TOWNSHIP	4600060	1	404425	741605	U	4.7	13	19	274	GTRB		300
	SOUTH ORANGE TOWNSHIP	2600241	2	404425	741605	T	4.7	13	19	182	GTRB		200
	SOUTH ORANGE TOWNSHIP	2600242	3	404425	741605	T	4.7	13	19	115	GTRB		250
	SOUTH ORANGE TOWNSHIP	2600243	5	404425	741605	T	4.7	13	11	156	GTRB		100
	SOUTH ORANGE TOWNSHIP	2600244	7	404425	741605	T	4.7	13	11	299	GTRB		200
	SOUTH ORANGE TOWNSHIP	2600245	8	404425	741605	T	4.7	13	19	122	GTRB		225
	SOUTH ORANGE TOWNSHIP	4600061	11	404500	741535	T	3.9	13	19	304	GTRB		400
	SOUTH ORANGE TOWNSHIP	4600062	12	404425	741605	U	4.7	13	19	382	GTRB		200
	SOUTH ORANGE TOWNSHIP	4600063	13	404425	741605	U	4.7	13	19	349	GTRB		600
	SOUTH ORANGE TOWNSHIP	4600064	14	404425	741605	U	4.7	13	19	355	GTRB		250
	SOUTH ORANGE TOWNSHIP	2602780	15	404503	741534	F	3.9	13	19	200	GTRB		450
	SOUTH ORANGE TOWNSHIP	2602369	16	404416	741504	F	4.2	13	19	350	GTRB		450
	SOUTH ORANGE TOWNSHIP	2602401	17	404440	741505	T	3.9	13	19	343	GTRB		400
	SOUTH ORANGE TOWNSHIP	2603643	19	404452	741542	F	4.1	13	19	500	GTRB		

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	COORD	DISTANCE	COUNTY	MUN	DEPTH	GES1	GES2	CAPACITY
5077	SOUTH ORANGE TOWNSHIP	2604546	20	404403	741615	F	5.1	13	19	200	GTRB		175
	SOUTH ORANGE TOWNSHIP	2604550	21	404403	741615	F	5.1	13	11	196	GTRB		
	ORANGE CITY	2603701	6	404530	741730	S	5.1	13	22	132	GOSS		1400
	ORANGE CITY	2603440	7	404534	741409	S	2.6	13	17	551	GTRB		350
	ORANGE CITY	2604322	8	404648	741330	S	1.3	13	17	500	GTRB		600
	ORANGE CITY	2604444	9	404613	741343	F	1.8	13	17	506	GTRB		500
5115	ORANGE CITY	RAHWAY RIVER		404607	741702	F	4.5				SYRAH		
	ESSEX FELS TOWNSHIP	4600200	1A	404953	741715	S	5.5	13	06	96	GOSS		300
	ESSEX FELS TOWNSHIP	4600201	2	404859	741629	S	4.4	13	21	40	GOSS		150
	ESSEX FELS TOWNSHIP	4600202	5	404900	741700	U	4.8	13	06	295	GTRB		400
	ESSEX FELS TOWNSHIP	4600203	6	404938	741734	S	5.6	13	06	565	GTRB		300
	ESSEX FELS TOWNSHIP	4600207	4A	405048	741721	S	6.2	13	21	195	GTRB		300
	ESSEX FELS TOWNSHIP	4600208	4B	405049	741719	S	6.2	13	21	270	GTRB		200
	ESSEX FELS TOWNSHIP	4600209	4C	405054	741716	S	6.2	13	21	360	GTRB		120
	ESSEX FELS TOWNSHIP	2601640	13	405106	741712	S	6.4	13	21	254	GTRB		200
	ESSEX FELS TOWNSHIP	2604763	1	404800	741130	T	1.1	13	02	380	GTRB		330
5179	BLOOMFIELD TOWNSHIP	2604763	1	404800	741130	T	1.1	13	02	380	GTRB		330
5198	WALLINGTON BOROUGH	2603027	LESTER ST.	405125	740710		6.5	03	65	400	GTRB		130
	WALLINGTON BOROUGH	4600075	8	405125	740750		6.2	03	65	503	GTRB		80
	WALLINGTON BOROUGH	4600074	5	405125	740750		6.2	03	65	506	GTRB		150
5245	MONTCLAIR TOWN	2603687	RAND W. #1	404622	741237	S	1.5	13	13	300	GTRB		400
	MONTCLAIR TOWN	2603688	GLENFLD #2	404851	741242	F	2.0	13	13	300	GTRB		600
	MONTCLAIR TOWN	2604597	LORRAINE 3	405035	741237	F	4.0	13	13	300	GTRB		400
5260	GLN RIDGE WATER DEPT.	2604827	2	404847	741210	S	1.9	13	08	400	GTRB		300
5339	RAHWAY CITY OF	RAHWAY RIVER		404701	741627		3.8	39	13		SYRAH		7000

Number of Observations: 135

ATTACHMENT A

**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT**

Peerless Tube

316

Site Name

Site ID Number

58-76 Locust Street

Bloomfield, Essex Co., NJ

Address

City, State

Date of Off-Site Reconnaissance April 23, 1986

**SITE DESCRIPTION**

Peerless Tube manufactures aerosol cans and is located in a residential area. The site is surrounded by paved parking lots and streets. In April, 1985, dumping of laquers and thinners in a pit behind the plant was reported. Inspections by the NJDEP and the Bloomfield Health Dept. at the time found no evidence of dumping.

The plant has a NJPDES permit to discharge wastewater to Lloyd's and Wigwam Brooks and to the Passaic River. Compliance evaluation inspections by NJDEP/DWR in 1984, 1985 and 1986 resulted in "acceptable" ratings.

Occupational health hazards have existed at the plant due to the use of chlorinated and aromatic hydrocarbons in the aerosol can manufacturing process. Between 1980 and 1984, the company was cited for numerous noise and safety violations.

In June, 1984, a trichloroethylene reclaiming system was installed.

**PRIORITY FOR FURTHER ACTION:** High \_\_\_\_ Medium x Low \_\_\_\_ None \_\_\_\_

**RECOMMENDATIONS**

No further action is recommended at this site. No evidence was found of the alleged dumping, and the case was subsequently closed. Although occupational health hazards have been present at the site, OSHA is involved and is monitoring the situation.

Prepared by: Teresa M. Kennel

Date: April 29, 1986

Of: Malcolm Pirnie, Inc.

**ATTACHMENT A-1**



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART I - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION  
01 STATE NJ 02 SITE NUMBER 316

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Peerless Tube		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 58-76 Locust Street			
03 CITY Bloomfield	04 STATE NJ	05 ZIP CODE 07003	06 COUNTY Essex	07 COUNTY CODE	08 CONG. DIST.
09 COORDINATES LATITUDE 40-47-09.0 LONGITUDE 74-12-06.0		BLOCK 129 (152) LOT 60,70 (8,10)			
10 DIRECTIONS TO SITE (Starting from nearest public road) Garden State Parkway to Bloomfield exit. John F. Kennedy Drive to Locust Avenue, make right.					

III. RESPONSIBLE PARTIES

01 OWNER (if known) Peerless Tube Co.		02 STREET (Business, mailing, residential) 58 Locust Avenue			
03 CITY Bloomfield	04 STATE NJ	05 ZIP CODE 07003	06 TELEPHONE NUMBER ( )		
07 OPERATOR (if known and different from owner) Richard Potts, V.P.		08 STREET (Business, mailing, residential) 58 Locust Avenue			
09 CITY Bloomfield	10 STATE NJ	11 ZIP CODE 07003	12 TELEPHONE NUMBER (201) 743-5100		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL (Agency name) <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN (Specify)					

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE (CERCLA 103c) DATE RECEIVED: MONTH DAY YEAR ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 07-11-85 <input type="checkbox"/> NO MONTH DAY YEAR		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER (Specify) CONTRACTOR NAME (S)			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR ENDING YEAR <input checked="" type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  
Lacquers and thinners are used on site. Substances identified include alkanes, chlorinated alkanes, aromatic hydrocarbons, butyl alcohol, 2-ethoxyethyl acetate, 2-butoxyethanol, and glycol ethers. (Attachment B)

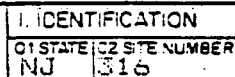
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  
Dumping of lacquers and thinners on-site was alleged but no evidence of such dumping was found. The use of aromatic and chlorinated hydrocarbons has caused occupational hazards.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste information and Part 3 - Description of Hazardous Conditions and Incidents)  
☐ A. HIGH (inspection required promptly) ☒ B. MEDIUM (inspection required) ☐ C. LOW (inspection on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT Robert Hayton		02 OF (Agency/Organization) NJDEP - HSMA.BEERA		03 TELEPHONE NUMBER (609) 6332219	
04 PERSON RESPONSIBLE FOR ASSESSMENT Teresa M. Kennel		05 AGENCY	06 ORGANIZATION M. Pirnie, Inc.	07 TELEPHONE NUMBER (201) 8450400	08 DATE 04-29-86 MONTH DAY YEAR



<p>01 PHYSICAL STATES (Check all that apply)</p> <p><input type="checkbox"/> A. SOLID      <input type="checkbox"/> E. SLURRY</p> <p><input type="checkbox"/> B. POWDER, FINES      <input checked="" type="checkbox"/> F. LIQUID</p> <p><input checked="" type="checkbox"/> C. SLUDGE      <input checked="" type="checkbox"/> G. GAS</p> <p><input type="checkbox"/> D. OTHER _____</p> <p>(Specify)</p>	<p>02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)</p> <p>TONS <u>Unknown</u></p> <p>CUBIC YARDS <u>Unknown</u></p> <p>NO. OF DRUMS <u>Unknown</u></p>	<p>03 WASTE CHARACTERISTICS (Check all that apply)</p> <p><input checked="" type="checkbox"/> A. TOXIC      <input type="checkbox"/> E. SOLUBLE      <input type="checkbox"/> I. HIGHLY VOLATILE</p> <p><input type="checkbox"/> B. CORROSIVE      <input type="checkbox"/> F. INFECTIOUS      <input type="checkbox"/> J. EXPLOSIVE</p> <p><input type="checkbox"/> C. RADIOACTIVE      <input checked="" type="checkbox"/> G. FLAMMABLE      <input type="checkbox"/> K. REACTIVE</p> <p><input type="checkbox"/> D. PERSISTENT      <input type="checkbox"/> H. IGNITABLE      <input type="checkbox"/> L. INCOMPATIBLE</p> <p><input type="checkbox"/> M. NOT APPLICABLE</p>
--	---	--

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	Unknown		
OLW	OILY WASTE	Unknown		
SOL	SOLVENTS	Unknown		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

[illegible]

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

Bloomfield Health Dept. files; NJDEP/DWR,DWM files; USEPA files :  
Attachments A-D





POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
NJ 316

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

The potential exists due to the alleged dumping of lacquers and thinners on-site, but no evidence of dumping was found.  
(Attachment D)

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

The potential exists due discharges to Lloyd's and Wigwam Brooks, but the plant is in compliance with it's NJPDES permit.  
(Attachments A,C)

01 ☒ C. CONTAMINATION OF AIR 02 ☒ OBSERVED (DATE: 04-23-86) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

Detected odor in air during OSR.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☒ ALLEGED  
03 AREA POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

Illegal dumping of lacquers and thinners was alleged, but inspections by NJDEP and the Bloomfield Health Dept. revealed no evidence of dumping. (Attachment D)

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☒ OBSERVED (DATE: 1984) ☐ POTENTIAL ☐ ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

The Bloomfield Health Dept. determined that workers were exposed to hazardous levels of glycol ethers and chlorinated and aromatic hydrocarbons. OSHA is involved in this problem. (Attachment B)

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3-DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
NJ 316

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

(Spills/runoff/stranding liquids/leaking drums)  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☒ ALLEGED

04 NARRATIVE DESCRIPTION

Illegal dumping of lacquers and thinners was alleged, but no evidence of dumping was found during inspections by NJDEP and the Bloomfield Health Dept. (Attachment D)

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Bloomfield Health Dept. files; NJDEP/DWM, DWR files; USEPA files :  
Attachments A-D

**ATTACHMENT B**

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS WASTE MANAGEMENT  
HAZARDOUS WASTE INSPECTION REPORT

DWM-029

GENERATOR INSPECTION REPORT

FACILITY INFORMATION

FACILITY NAME: Peerless Tube  
FILE NUMBER: 07-02-11  
VHT FACILITY FILE NUMBER: \_\_\_\_\_  
PERMIT #: \_\_\_\_\_  
REGION: Metro  
INSPECTION DATE: 2-1-90  
INCIDENT/CASE NUMBER: \_\_\_\_\_  
INSPECTION TYPE: Gen/LB  
RESPONSIBLE AGENCY CODE: \_\_\_\_\_  
INSPECTOR'S NAME: Eddie L. Davis JR.  
INSPECTOR'S AGENCY: NJDEP  
INSPECTOR'S BUREAU: D+WM  
EPA ID NUMBER: NJD002171122  
ADDRESS: 58 Locust Ave  
Bloomfield NJ  
LOT: 10/60 BLOCK: 152/129  
COUNTY: Essex  
FACILITY PERSONNEL: Alan Ianuzzi  
TELEPHONE #: Bob Scheibe  
(201) 743-5100  
OTHER STATE/EPA PERSONNEL: \_\_\_\_\_  
REPORT PREPARED BY: Eddie L. Davis JR.  
REVIEWED BY: A. Stelling  
DATE OF REVIEW: 3/26/90

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

PHOTOS TAKEN ( ) YES ( ☒ ) NO

IF YES, HOW MANY? \_\_\_\_\_

SAMPLE TAKEN ( ) YES ( ☒ ) NO

NO. OF SAMPLES \_\_\_\_\_

NJDEP SAMPLE ID#: \_\_\_\_\_

MANIFESTS REVIEWED ( ) YES ( ☒ ) NO

Number of manifests in compliance 108

Number of manifests not in compliance 3

List manifest document numbers of those manifests not in compliance.

- note ( MAC 338888 - No Transporter's Phone number  
NSA 0327984 - ~~No State transporter's ID Number~~  
- NO description of NOS waste in Section 3 of manifest.  
NSA 0718005 - No State transporter's ID Number  
NO description of NOS waste in Section 3 of manifest

-A1-

SUMMARY OF FINDINGSFACILITY DESCRIPTION AND OPERATIONS:

Thursday, February 1, 1990 a BCBH Generator  
inspection was conducted at Peerless Tube Co. located  
58 Locust Ave in Bloomfield N.J. The Facility was  
represented by Project Engineer Alan J. Januzzi  
(201) 743-5954

Peerless has been at the present location since the  
early 1900's and presently employs 350 people who  
operate the facility on three-eight hour shifts five  
days a week. The Plant's major operation consist  
of the manufacturing of aerosol <sup>and squeeze tubes</sup> cans for various  
companies such as Avon, Sunve and Clarisal  
just to name a few. This operation is conducted  
in two of Peerless Plants, both located on  
Locust Ave (see sketch) The operation begins  
with an aluminum slug extruded by air to form  
a hollow tube <sup>(can)</sup>. The tube is then moved along a  
conveyor where it is threaded and cleaned with trichloroethane.  
After solvent cleaning it is heat dried and painted with  
solvent based <sup>or Non solvent based</sup> paints. After the tubes are painted (coated)  
they are oven dried, then printed with the labels  
of the various companies which order the tubes.  
There are approximately 13 lines which produce  
these aerosol and squeeze tube.  
The hazardous waste associated with the manufacturing



-A2-

SUMMARY OF FINDINGSFACILITY DESCRIPTION AND OPERATIONS (continued):

of these tubes consist of:

DC01 - Waste Paint generated From coating operation

After tubes are painted Facility generates approximately 6-7 drums every 30 days (left over paint)

EO01 - Waste Trichloroethane generated From tube

degreasing and cleaning operation. Facility use tetrachloroethylene in the past but trichloroethylene was more successful. Facility generates

approximately 6-12 drums per month

EO02 - Waste paint, Waste 1,1,1 Trichloroethane and

misc solvents used to clean coating (painting) area. Facility no longer generates EO02.

\* EO03 - Waste paint with chlorinated solvents

This waste stream replaced EO02 waste stream. Facility generate approximately 15-18 drums per month

X726 - Waste oil generated From compressor

and general machine maintenance

Facility generates approximately 6-10 drums every 90 days

DC02 - Lab Packs For lab clean out.

Permits:

Facility has air permits for drying ovens

\* Chlorinated solvents are <sup>used</sup> added for cleaning purposes 0-15% MEK, Acetone, Xylene; 0-10% 1,1,1 Tri, TCE, PCE; 20-30% Paint 50-60% Misc Solids; See Manifest NSA 0328000 (EO03) B-4

ATTACHMENT

-A3-

SUMMARY OF FINDINGS**FACILITY DESCRIPTION AND OPERATIONS (continued):**

Facility has permit to discharge wash water  
thru Pacific Valley water authority.

History:

No history for the past 4 years.

Violation:

See next 3 pages for violation summary.

-B-

Describe the activities that result in the generation of hazardous waste.

DOO1 - White paints w/ chlorinated solvent generated from tube coating

EC01 - Deaerating operation

EC02 - <sup>Waste</sup> Paint cleaning operation (No longer generated)

EC03 - <sup>Waste</sup> Paint cleaning operation (replaced EC02)

X726 - Waste oil - Compressor and general machine maintenance

Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes)

DOO1 - 8 - 55 gallon drums on site

EC03 - 58 - 55 gallon drums on site

X726 - 4 - 55 gallon drums on site

Handler Name: Peckles Tube Co.  
ID Number: 100002171122  
Inspector: E. Davis Jr.  
Date: 2-1-90

Comments

APPENDIX A-1

SOLVENT IDENTIFICATION CHECKLIST

1. Does the handler generate any of the following F001 constituents (i.e., spent halogenated solvents used in degreasing) as a result of being used in the process either in pure form or commercial grade?

tetrachloroethylene	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
trichloroethylene	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
methylene chloride	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1,1,1-trichloroethane	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
carbon tetrachloride	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
chlorinated fluorocarbons	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*In small quantities*

2. Does the handler generate any of the following F002 constituents (i.e., spent halogenated solvents) as a result of being used in the process either in pure form or commercial grade?

tetrachloroethylene	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
trichloroethylene	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
methylene chloride	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1,1,1-trichloroethane	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
chlorobenzene	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
trichlorofluoromethane	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1,1,2-trichloro-1,2,2-trifluoroethane	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
ortho-dichlorobenzene	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1,1,2-trichloroethane	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

3. Does the handler generate any of the following F003 constituents (i.e., spent nonhalogenated solvents) as a result of being used in the process either in pure form or commercial grade?

xylene	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
acetone	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
ethyl acetate	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
ethyl ether	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
methyl isobutyl ketone	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
n-butyl alcohol	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
cyclohexane	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
methanol	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

*ethyl ether compounds*

If the F003 wastestream has been mixed with a solid waste, does the resultant mixture exhibit the ignitability characteristic?

☐ Yes ☒ No

Handler Name: \_\_\_\_\_  
ID Number: \_\_\_\_\_  
Inspector: \_\_\_\_\_  
Date: \_\_\_\_\_

Comments

4. Does the handler generate any of the following F004 constituents (i.e., spent nonhalogenated solvents) as a result of being used in the process either in pure form or commercial grade?

cresols and cresylic acid  
nitrobenzene

Yes ☒ No ☒  
Yes ☐ No ☐

5. Does the handler generate any of the following F005 constituents (i.e., spent nonhalogenated solvents) as a result of being used in the process either in pure form or commercial grade?

toluene  
methyl ethyl ketone  
carbon disulfide  
isobutanol  
pyridine

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☒  
Yes ☒ No ☐

Ingredients in  
solvents (ie:  
electrosol B13 and  
stacksol)

6. Are any of the constituents listed in the questions 1-5 used for their "solvent" properties -- that is to solubilize (dissolve) or mobilize other constituents? The following questions will be helpful in confirming this determination.

(a) Chemical carriers?

Yes ☐ No ☒

If the answer is yes, list the constituents.

(b) Degreasing/cleaning?

Yes ☒ No ☐

If the answer is yes, list the constituents.

Trichloroethylene

(c) Diluents?

Yes ☐ No ☒

If the answer is yes, list the constituents.

ATTACHMENT C





**State of New Jersey**

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**DIVISION OF WATER RESOURCES**

**METRO BUREAU OF REGIONAL ENFORCEMENT**

**2 BABCOCK PLACE**

**WEST ORANGE, NEW JERSEY 07052**

**Eric J. Evenson**  
**Acting Director**

**January 31, 1990**

**Mr. Kris Hoffman, Industrial Hygienist**  
**Peerless Tube Company**  
**58 - 76 Locust Avenue**  
**Bloomfield, NJ 07003**

**Re: Compliance Evaluation Inspection**  
**Peerless Tube Company, Incorporated**  
**NJPDES No. NJ 0029335 and NJ 0029327**  
**Bloomfield Essex/County**

**Dear Mr. Hoffman:**

A Compliance Evaluation Inspection of your facility was conducted by a representative of this Division on December 8, 1989.

Your facility received a rating of "ACCEPTABLE". A copy of the completed inspection report form is enclosed for your information. Please address any minor deficiencies noted therein.

This Division anticipates your continued cooperation in assisting us in the prevention and control of water pollution in New Jersey.

**Very truly yours,**

*Rebecca Manis*

**Rebecca Manis**  
**Environmental Specialist**  
**Surface Water/Sewer**  
**System Enforcement**  
**Metro Bureau of**  
**Regional Enforcement**

**E16:G25**

**c: Chief - Permits Administration Branch, USEPA**  
**Mr. Patrick M. Durack, USEPA**  
**Mr. Richard Proctor, H.O.**  
**Mr. Montgomery, BSDW**

**Enclosure**

**bc: Zaheer Hussain**

**Central File New Jersey Is An Equal Opportunity Employer**

**ATTACHMENT C-1**



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER RESOURCES  
CN 029, Trenton, N.J. 08625

## DISCHARGE SURVEILLANCE REPORT



PERMIT # NJ0029335 NO. OF DISCHARGES 001,002,003 CLASS MIN/IND  
DISCHARGER PEERLESS TUBE COMPANY, INCORPORATED  
OWNER PEERLESS TUBE COMPANY  
MUNICIPALITY BLOOMFIELD COUNTY ESSEX WATERSHED CODE P  
LOCATION 58 LOCUST AVENUE -07003  
RECEIVING WATERS LLOYD'S BROOK / WIGWAM BROOK STREAM CLASS PW2-NT  
LICENSED OPERATOR & PLANT CLASS N/A  
TRAINEE/ASSISTANT N/A OTHER INFO. (201) 743-5100

## DEFICIENCIES OR COMMENTS

① THE FACILITY NEEDS TO OBTAIN A PHYSICAL  
CONNECTION PERMIT FOR TWO ON-SITE WELLS

OVERALL RATING

☒ Acceptable☐ Conditionally Acceptable☐ Unacceptable

EVALUATOR REBECCA J. MANIS TITLE ENVTL SPECIALIST

INFORMATION FURNISHED BY (Name) KRIS HOFFMAN

(Title) INDUSTRIAL HYGIENIST (Organization) PEERLESS TUBE  
COMPANY, INC.

DATE OF INSPECTION DECEMBER 8, 1989

ATTACHMENT C-2

N.J.D.E.P.  
D.W.R.

## DISCHARGE SURVEILLANCE REPORT



Page 2 of 3 (I)

Permit #: NJ0029335

Date: 12/18/89

PEERLESS TUBE COMPANY, INC. INDUSTRIAL TREATMENT PROCESS EVALUATION			
RATING CODES: S = Satisfactory M = Marginal U = Unsatisfactory NA = Not Applicable			
		RATING	COMMENTS
GENERAL	DISCHARGES# 001, 002, 003	---	001-NOT IN USE (AIR CONDITIONERS) 002-NCCW FOR
	WASTEWATER SOURCE(S)	---	COMPRESSORS (2) 003-NCCW (1) DEGREASER (1) STILL
	CONTINUITY OF OPERATION	---	24 HOURS / DAY 5-7 DAYS / WEEK
	BYPASSES/OVERFLOWS	NA	1 CARBON
	S.P.C.C. PLAN	NA	ABSORPTION
	ALARM SYSTEMS	NA	UNIT
	ALTERNATE POWER SUPPLY	NA	
TREATMENT PROCESSES			NO UNDERGROUND STORAGE
			12 TANKS (1) 20,000 / (1) 10,000 - CLOSURE IN
			(GROUND)
		-	NONE
SLUDGE HANDLING	WASTE PAINT	-	PEERLESS TUBE COMPANY, INCORPORATED
	WASTE OILS	-	GEN ID # NJD002171122
	TRANSPORTER	-	NAPPI TRUCKING - NJD000813477
	DISPOSAL SITE	-	SAFETY KLEEN, LINDEN - EPA ID # NJD002182897
	SPENT TRICHLOROETHYLENE	-	
SLUDGE HANDLING	TRANSPORTER	-	GOLD SHIELD SOLVENTS - NJD0047319043
	DISPOSAL SITE	-	GOLD SHIELD SOLVENTS - DIV. DETREX CORP.
			CINNAMINSON, NJ - EPA ID # NJD0047318043
INFORMATION	FLOW METER & RECORDER	S	METERED
	RECORDS	S	PERMIT/DMR'S
	SAMPLING PROCEDURES	S	FACILITY PERSONNEL
	ANALYSES PERFORMED BY	S	GARDEN STATE LABORATORIES
			HILLSIDE, NJ
			CERT # 07049
	FACILITY MANUFACTURES	-	
	EXTRUDED ALUMINUM		
	DEOSOL CANS AND		
	TUBES		
OTHER	2 ON-SITE WELLS	-	WELL ALLOCATION PERMIT # 2152P
	(TEMPORARILY CAPPED)	U	EXPIRES FEBRUARY 28, 1993
			PHYSICAL CONNECTION PERMIT REQUIRED
	FLOOR DRAINS	-	SEALED
	FINAL EFFLUENT APPEARANCE	S	001-NO DISCHARGE 002-CLEAR
		003-CLEAR	
		LLOYDS & WIGWAM BROOKS	

ATTACHMENT C-3

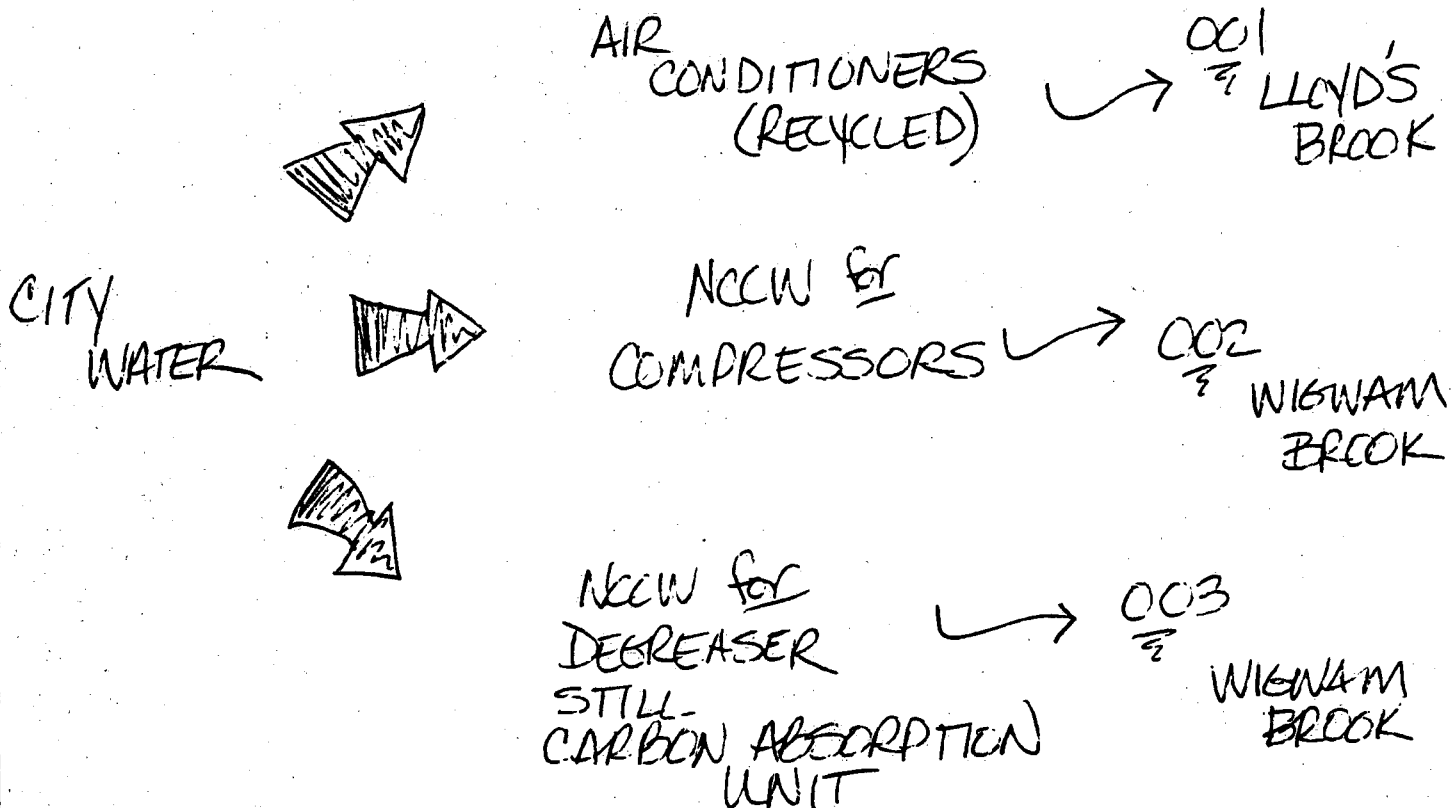


DISCHARGE SURVEILLANCE REPORT

Permit # N10039335  
Date 12/18/89

PEERLESS TUBE CO., INC.

PLANT DIAGRAM AND FLOW SEQUENCE:



-NO SAMPLES TAKEN-

DISCHARGE DATA

SOURCE: DMR's

PERIOD: DATED 11/88 - 10/89

DIS	PARA	SAMPLE TYPE	PERMIT LIMITS	DATA	DIS	PARA	SAMPLE TYPE	PERMIT LIMITS	DATA
			- NO						
			VIOLATIONS-						

MONITORING DEFICIENCIES: NONE

ATTACHMENT C4

ATTACHMENT D

## INCIDENT REPORT

D.W.M. ASSIGNED CASE NUMBER	85-05-17-050	HOT LINE	<input type="checkbox"/>	INDEXED	<input type="checkbox"/>
DATE	85-05-17	TIME (Military)	1330	D.W.M. ID NO.	2195

## INCIDENT REPORTED BY:

NAME	THOMAS SOLECKI	PHONE	(212) 364-5130
AFFILIATION	FEDERAL ENV. PROT AGENCY	CODE	
STREET	26 RBD PLAZA RM 1023	STATE	NY
CITY	NEW YORK	ZIP CODE	10278

## INCIDENT LOCATION:

NAME	FEARLESS TUBE COMPANY	PHONE	
STREET	58-76 LOCOST AVE	UTM VERT	
CITY	BLOOMFIELD	COUNTY	07108
STATE	NJ	ZIP CODE	

SOURCE OF SPILLED AND/OR DISCHARGED SUBSTANCE: Confirmed ☐ Alleged ☐ More Than 1 Source ☐

COMPANY NAME	FEARLESS TUBE COMPANY	PHONE	(201) 743-5100
CONTACT	RICHARD POTTS	TITLE	VICE PRESIDENT
STREET	58-76 LOCOST ST	DEP COMPANY NO.	
CITY	BLOOMFIELD	COUNTY	ESSSEX
STATE	NJ	ZIP CODE	07003

SUSPECTED SPILLED AND/OR DISCHARGED SUBSTANCE: Confirmed ☒ Alleged ☐ More Than 2 Substances ☐

1. THINNERS	SUBSTANCE NO.	
AMOUNT SPILLED	S/L/G/M	
UNITS	GAL	
A/P/E		
2. LAQUERS	SUBSTANCE NO.	
AMOUNT SPILLED	S/L/G/M	
UNITS	GAL	
A/P/E		

DATE OF INCIDENT	05-28-85	TIME (Military)	1640	TEMP.	50	WEATHER	CLEAR	WIND (Dir. & Vel.)	VAR1	
SPILL ORIGIN	BEHIND PLANT INTO PIT.								CODE	
CAUSE	DELIBERATE								CODE	
WATER BODY AFFECTED									CODE	
ASSOCIATED FIRE AND/OR HAZARDS										

## INCIDENT REFERRED TO:

AGENCY	PHONE
CONTACT	AGENCY CODE

PRIMARY D.W.M. INVESTIGATOR	5/20/85	FOLLOWUP	
NO FURTHER ACTION		DATE	

## COMMENTS:

RECEIVED CALL FROM USEPA (NY) THAT A MR JEREMIAH FROM OSHA (201) 361-4045 OBSERVED THE MANAGEMENT AND PERSONNEL FROM FEARLESS TUBE DELIBERATELY DUMP LAQUERS AND THINNERS INTO A PIT BEHIND THEIR PLANT. CALLED BLOOMFIELD HEALTH DEPT SPOKE TO

ATTACHMENT D-1



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WASTE MANAGEMENT

D.W.M. ASSIGNED CASE NUMBER <u>85-05-17-05</u>		Page <u>2</u> of <u>    </u>
DATE <u>85-05-17</u>	TIME <u>1330</u>	D.W.M. ID NO. <u>2175</u>

RICHARD PROCTOR (201) 743-4400 AND ADVISED  
HIM OF THE SITUATION. THEY WILL RETURN  
RECEIVED CALL FROM R. PROCTOR THAT THEY  
COULD NOT FIND SOURCE OF CONTAMINATION 2175

**MEMO**NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Spill File  
FROM Frank Gagliano through Bruce Comfort DATE August 6, 1985  
SUBJECT Peerless Tube Company, Locust Street, Bloomfield, Essex County  
DWM #85-05-17-05C - SP 07-02

An initial inspection was conducted at the subject facility on July 11, 1985. The original report described the dumping of thinners and lacquers into a pit behind the plant.

When I arrived on site, I called Richard Proctor of the Bloomfield Health Department. He was not available and I left a message that I would be inspecting the Peerless facility. On May 17, 1985, Mr. Proctor inspected the facility and was unable to find the site of the reported dumping.

My inspection revealed that the plant is located in a residential urban area. The building itself is of brick construction and surrounded by paved parking lots and streets. A careful inspection of these areas did not reveal any evidence of dumping, nor could I find anything that could be construed as a "pit" as described in the original report.

FOC5:dg

ATTACHMENT D-3

**MEMO**

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Spill File *[initials]*  
FROM Frank Gagliano through Bruce Comfort *[initials]* DATE August 6, 1985  
SUBJECT Peerless Tube Company, Locust Street, Bloomfield, Essex County  
DWM #85-05-17-05C - SP 07-02

Conclusion:

The report of deliberate dumping of thinners into a pit behind the subject facility could not be substantiated by inspections conducted by two separate officials.

Recommendations:

Due to the lack of substantial evidence, it is recommended that this case be closed.

FOC5:dg

ATTACHMENT D-4

**ATTACHMENT E**

## INCIDENT NOTIFICATION REPORT

☒ TRENTON DISPATCH ☐ DIV. OF WASTE MANAGEMENT ☐ DIV. OF ENVIR. QUALITY ☐ DIV. OF WATER RESOURCES  
☐ HQ FIELD OFFICE: ☐ NORTHERN ☐ METRO ☐ CENTRAL ☐ SOUTHERN

DATE 09-11-86 TIME (Military) 110115 REC'D BY YACURS PHONE NO. 669-3960

INCIDENT REPORTED BY:

CASE NO. 86-09-17-01 M

NAME Flord Campbell PHONE (201) 344-0316  
STREET 293 Wilson Ave.  
CITY Newark STATE N.J.  
AFFILIATION Direct Environmental Co.

## NATURE OF INCIDENT:

EMERGENCY: ☐ FIRE ☐ EXPLOSION ☐ DRUMS ☐ SPILL ☐ DERAILMENT ☐ MVA  
COMPLAINT: ☐ SMOKE ☐ ODORS ☐ DUST ☐ SEWAGE ☐ NUISANCE ☐ ILLEGAL DUMPING  
OTHER: ☐

## INCIDENT LOCATION:

NAME (Site) Peerless Tube ☐ UNK PHONE (201) 743-5100  
STREET 58-76 Locus Ave.  
CITY Bloomfield COUNTY Essex STATE N.J. ZIP CODE

## STATUS AT SCENE OF INCIDENT:

Under ground 3-Tank was removed, ground was contaminated DATE OF INCIDENT: 09-11-86 TIME: 110115

ANYONE HOSPITALIZED ☐ YES ☒ NO  
AREA EVACUATED ☐ YES ☒ NO  
CONTAMINATION OF ☐ AIR ☒ LAND ☐ WATER  
PUBLIC EXPOSURE ☐ YES ☒ NO  
RECEIVING WATER ☐ YES ☒ NO  
WIND DIRECTION  LOCATION TYPE ☐ CITY ☐ INDUSTRIAL ☐ RURAL

POLICE AT SCENE ☐ YES ☒ NO  
FIREMAN AT SCENE ☐ YES ☒ NO  
ASSISTANCE REQUIRED ☐ YES ☒ NO

POTABLE WATER SOURCE ☐ YES ☒ NO

SOURCE OF INCIDENT/PROBLEM: ☐ KNOWN ☐ UNKNOWN

COMPANY NAME as above PHONE   
CONTACT Flord Campbell TITLE   
STREET   
CITY  COUNTY  STATE  ZIP CODE

IDENTITY OF SPILLED AND/OR DISCHARGED SUBSTANCE: ☒ KNOWN ☒ UNKNOWN

NAME OF SUBSTANCE no #4 oil  
AMT. unknown A/P/E  SUBSTANCE CONTAINED ☐ YES ☐ NO ☒ UNKNOWN

## OFFICIALS NOTIFIED: (A-310)

HEALTH DEPT.: PERSON Meisger PHONE 743-1221 DATE 9/24/86  
LOCAL MUNIC.: PERSON  PHONE  DATE

INCIDENT REFERRED TO: ☐ BFO ☐ BERG ☐ DCJ ☐ DWR ☐ F&G ☐ BAPC ☐ HD

1. PERSON Pastack 9/24/86 PHONE  DATE   
2. PERSON  PHONE  DATE

## COMMENTS:

3000 gal under ground Tank. Tank was empty about 12 years ago excavation of Tank and found land is contaminated with fuel #4. Contaminated area  
H.D. was informed to check. Mr. Campbell  
will excavate the contaminated soil put it in a roll off.

ATTACHMENT

E-1

NEW JERSEY DEPARTMENT  
OF  
ENVIRONMENTAL PROTECTION

Report of Phone Call

Case Name: Peerless Trailer

Incident Notification Number: 810-09-17-01M

Date: 9/15/86 Referred to: \_\_\_\_\_

Time: 1050 hrs. \_\_\_\_\_

Bureau or Office: DWM/MFO File: \_\_\_\_\_

Person Contacted: Floyd Campbell Phone Number: 344-0516

Affiliation/Address: Direct Environmental Co.

Subject of Call: \_\_\_\_\_

Summary of Call: Mr. Campbell called regarding clean-up.  
He said tank was removed from concrete ~~wall~~ vault.  
Contaminated soil was removed ~ 20 yds<sup>3</sup>. He will  
take soil samples from side area of tank  
and submit report & analysis to this office.  
I told him it would also be O.K. to  
backfill excavation.

ACTION RECOMMENDED: \_\_\_\_\_

ATTACHMENT E-2

E. Hutz

NEW JERSEY DEPARTMENT  
OF  
ENVIRONMENTAL PROTECTION

Report of Phone Call

Case Name: Peerless Tube

Incident Notification Number: 86-09-17-01M

Date: 9/26/86 Referred to: \_\_\_\_\_

Time: 0940 \_\_\_\_\_

Bureau or Office: \_\_\_\_\_ File: \_\_\_\_\_

Person Contacted: Peter Hardy Phone Number: 201 344 0316

Affiliation/Address: Direct Environmental

Subject of Call: \_\_\_\_\_

Summary of Call: Mr. Hardy agreed to bore to  
clay or groundwater & sample. PL

ACTION RECOMMENDED: \_\_\_\_\_

ATTACHMENT E-3

Investigator: R. Zollner



NEW JERSEY DEPARTMENT  
OF  
ENVIRONMENTAL PROTECTION

Report of Phone Call

Case Name: \_\_\_\_\_

Incident Notification Number: 86-09-17-01M

Date: 9/23/86 Referred to: \_\_\_\_\_

Time: 1635 \_\_\_\_\_

Bureau or Office: MFO File: \_\_\_\_\_

Person Contacted: Peter Lordy Phone Number: 201-344-0316

Affiliation/Address: Direct Environmental

Subject of Call: Peculiar tube in Bloomfield

Summary of Call: \_\_\_\_\_

Mr. Lordy said that they have excavated the soil and analysis of a sample indicated contamination of less than 100PPM THC.

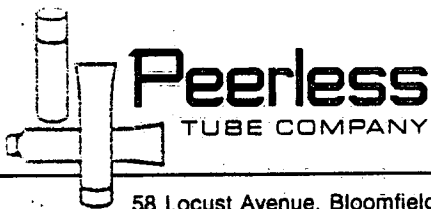
He would like to close the case and fill up the hole. I requested a copy of the analysis report from him.

He would like to have verbal approval from Robert Zolner (Spill Supervisor/MFO) to close the hole.

ACTION RECOMMENDED: \_\_\_\_\_

*Josephine Elow*

ATTACHMENT E-4



58 Locust Avenue, Bloomfield, N.J. 07003 201-743-5100

October 8, 1986

N.J. Department of Environmental Protection  
Metro Region Office  
2 Babcock Place  
West Orange, New Jersey 07052

Att: Ms. Andrea Pastuck

Re: 3000 Gal. Tank Removal

Dear Ms. Pastuck;

This will confirm our conversation today regarding the above mentioned project. I understand based on test results, reported to you by Mr. Peter Lordy of Direct Environmental, no further work is necessary and that we may backfill the excavation and pour a new concrete sidewalk.

Thank you for your attention to this matter.

Very truly yours,

Alan J. Ianuzzi  
Project Engineer

AJI/pb

cc: Mr. Peter Lordy, Direct Environmental, Inc.

ATTACHMENT F

## INCIDENT NOTIFICATION REPORT

07-02

☐ TRENTON DISPATCH ☐ DIV. OF WASTE MANAGEMENT ☐ DIV. OF ENVIR. QUALITY ☐ DIV. OF WATER RESOURCES  
☐ HQ FIELD OFFICE: ☐ NORTHERN ☐ METRO ☐ CENTRAL ☐ SOUTHERN

DATE 09-25-86 TIME (Military) 1240 REC'D BY Bleeman PHONE NO. \_\_\_\_\_

INCIDENT REPORTED BY:

CASE NO. 86-09-25-03MNAME Mike Hamity PHONE 680-8054

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

AFFILIATION Private Citizen

## NATURE OF INCIDENT:

EMERGENCY: ☐ FIRE ☐ EXPLOSION ☐ DRUMS ☐ SPILL ☐ DERAILMENT ☐ MVA  
COMPLAINT: ☐ SMOKE ☐ ODORS ☐ DUST ☐ SEWAGE ☐ NUISANCE ☐ ILLEGAL DUMPING  
OTHER: ☐

## INCIDENT LOCATION:

NAME (Site) Parlors Tube ☐ UNK PHONE \_\_\_\_\_STREET Right JFK Drive near Wessing ParkCITY Bloomfield COUNTY Essex STATE VT ZIP CODE \_\_\_\_\_

## STATUS AT SCENE OF INCIDENT:

White substance appears to be being discharged into brook along property border near to Bad LuckDATE OF INCIDENT: 09-25-86 TIME: \_\_\_\_\_

ANYONE HOSPITALIZED ☐ YES ☒ NO  
AREA EVACUATED ☐ YES ☒ NO  
CONTAMINATION OF ☐ AIR ☐ LAND ☒ WATER  
PUBLIC EXPOSURE ☒ YES ☐ NO  
RECEIVING WATER Thru Lines  
WIND DIRECTION \_\_\_\_\_ LOCATION TYPE ☒ CITY ☐ INDUSTRIAL ☐ RURAL

POLICE AT SCENE ☐ YES ☒ NO  
FIREMAN AT SCENE ☐ YES ☒ NO  
ASSISTANCE REQUIRED ☐ YES ☒ NO  
POTABLE WATER SOURCE ☐ YES ☒ NO

SOURCE OF INCIDENT/PROBLEM: ☐ KNOWN ☐ UNKNOWNCOMPANY NAME Same as Tube PHONE \_\_\_\_\_

CONTACT \_\_\_\_\_ TITLE \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

IDENTITY OF SPILLED AND/OR DISCHARGED SUBSTANCE: ☐ KNOWN ☒ UNKNOWNNAME OF SUBSTANCE Mulch WhiteAMT. 0.25 A/P/E \_\_\_\_\_ SUBSTANCE CONTAINED ☐ YES ☐ NO ☐ UNKNOWN

## OFFICIALS NOTIFIED: (A-310)

HEALTH DEPT.: PERSON Mrs. McGovern PHONE 743-8400 DATE 9-25-86

LOCAL MUNIC.: PERSON \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

INCIDENT REFERRED TO: ☐ BFO ☐ BERG ☒ DCJ ☐ DWR ☐ F&G ☐ BAPC ☐ HD1. PERSON Pastore 9/25/86 PHONE \_\_\_\_\_ DATE \_\_\_\_\_

2. PERSON \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

## COMMENTS:

Normally occurs during working hours

COPIES:

White - File

Yellow - Trenton Dispatch

Pink - DWM Enforcement

ATTACHMENT E

ATTACHMENT G

## INCIDENT NOTIFICATION REPORT

07-02-11

☐ TRENTON DISPATCH ☒ DIV. OF WASTE MANAGEMENT ☐ DIV. OF ENVIR. QUALITY ☐ DIV. OF WATER RESOURCES  
☐ HQ FIELD OFFICE: ☐ NORTHERN ☒ METRO ☐ CENTRAL ☐ SOUTHERN

DATE 10-20-86 TIME 1130 REC'D BY Jean Adragna PHONE NO. 201-669-3983  
(Military)

INCIDENT REPORTED BY:

CASE NO. 86-10-20-01mNAME Officer Russell PHONE 201-743-4400 x255

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

AFFILIATION Bloomfield Fire Dept.

## NATURE OF INCIDENT:

EMERGENCY: ☒ FIRE ☐ EXPLOSION ☐ DRUMS ☐ SPILL ☐ DERAILMENT ☐ MVA  
COMPLAINT: ☐ SMOKE ☐ ODORS ☐ DUST ☐ SEWAGE ☐ NUISANCE ☐ ILLEGAL DUMPING  
OTHER: ☐

## INCIDENT LOCATION:

NAME (Site) Peerless Tube Co. ☐ UNK PHONE \_\_\_\_\_STREET 58 Locust Ave.CITY Bloomfield COUNTY Essex STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

STATUS AT SCENE OF INCIDENT: explosion 40 ton dumpster ignited greenish-yellowish substance found in dumpster, 3 firemen went to hospital  
DATE OF INCIDENT: 10-20-86 TIME: 1130

ANYONE HOSPITALIZED ☐ YES ☐ NO POLICE AT SCENE ☐ YES ☐ NO  
AREA EVACUATED ☐ YES ☐ NO FIREMAN AT SCENE ☒ YES ☐ NO  
CONTAMINATION OF ☐ AIR ☐ LAND ☐ WATER ASSISTANCE REQUIRED ☐ YES ☐ NO  
PUBLIC EXPOSURE ☐ YES ☐ NO  
RECEIVING WATER \_\_\_\_\_ POTABLE WATER SOURCE ☐ YES ☐ NO  
WIND DIRECTION \_\_\_\_\_ LOCATION TYPE ☐ CITY ☐ INDUSTRIAL ☐ RURAL

SOURCE OF INCIDENT/PROBLEM: ☒ KNOWN ☐ UNKNOWNCOMPANY NAME Peerless Tube Co. PHONE \_\_\_\_\_

CONTACT \_\_\_\_\_ TITLE \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

IDENTITY OF SPILLED AND/OR DISCHARGED SUBSTANCE: ☐ KNOWN ☐ UNKNOWNNAME OF SUBSTANCE green liq. substance & crystalsAMT. unk A/P/E \_\_\_\_\_ SUBSTANCE CONTAINED ☐ YES ☐ NO ☐ UNKNOWN

## OFFICIALS NOTIFIED: (A-310)

HEALTH DEPT.: PERSON \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

LOCAL MUNIC.: PERSON \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

INCIDENT REFERRED TO: ☐ BFO ☐ BERC ☐ DCJ ☐ DWR ☐ F&G ☐ BAPC ☐ HD1. PERSON Pastuck 10/20/86 PHONE \_\_\_\_\_ DATE \_\_\_\_\_

2. PERSON \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

## COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COPIES:

White - File

Yellow - Trenton Dispatch

Pink - DWM Enforcement

ATTACHMENT 6

ATTACHMENT H

INVESTIGATION

CASE #: 87-09-30-02M

DWM FILE #: 07-02-11

TIME ARRIVED: 1115 hrs

INVESTIGATOR: Eddie L. Davis

DATE: 10-05-87 TIME DEPARTED: 1140 hrs

LOCATION: Watessing Park Stream

PROPERTY OWNER: City of Bloomfield

ADDRESS: Glenwood Ave

MAILING ADDRESS: \_\_\_\_\_

Bloomfield County - Essex

BLOCK: \_\_\_\_\_ LOT: \_\_\_\_\_ RESPONSIBLE PARTY Possibly Peerless Co

LOCATION TELEPHONE #: \_\_\_\_\_ ADDRESS: Locust St.

EPA ID #: \_\_\_\_\_ Bloomfield

LOCAL HEALTH DEPT. REP. Mr. Panzitta TELEPHONE #: \_\_\_\_\_

ORIGIN OF COMPLAINT: Deputy Chief McGowan TELEPHONE #: (201) 734-4400 X264

NATURE OF COMPLAINT: Milky White Substances in Stream

PHOTOGRAPHS TAKEN: \_\_\_\_\_ SAMPLE #: \_\_\_\_\_

FINDINGS: 1115 hrs, Monday October 5, 1987 Eddie Davis with Phil Cole responded to above incident location to investigate a milky white substance discharging into the Watessing Park Stream.

Watessing Park Dept. Foreman Angela Picillo stated that he'd noticed a grey substance in the stream many times before. He also stated that the substance had a fuel oil odor. Mr. Picillo informed DEP that the responsible party, possibly a company by the name of Peerless, located on Locust St and Bloomfield Ave. in Bloomfield.

Upon investigation of Peerless Co. we observed no apparent dumping of any substance into the Watessing Park on 10/05/87.

Conclusion:  
Peerless maybe or may have been the source of the discharge. It is a tributary to the stream. But there was no obvious discharge from Peerless into the stream 10-05-87 and overall water quality appeared normal.

Recommendation:  
Due to the fact the discharges are incidental in nature no further investigation is warranted. Therefore, I recommend no further action from this office.

Ed. On next report - we will investigate Peerless

D. Beem  
Supervisor Signature

Eddie L. Davis  
Investigator Signature



TYPE (COMPLAINT) \_\_\_\_\_  
(INSPECTION) \_\_\_\_\_

COMPLAINT # 325

**BLOOMFIELD HEALTH DEPARTMENT  
COMPLAINT AND INSPECTION RECORD**

COMPLAINANT: DEP. - Central County Police Home Phone: \_\_\_\_\_

Address \_\_\_\_\_ Work Phone: \_\_\_\_\_

Location of Complaint: Yocust Ave - Watsessing Brook

Person To Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

Address \_\_\_\_\_

NATURE OF (COMPLAINT) Chemical spillage into  
(INSPECTION) Watsessing Brook.

Yocust St.  
County Police Pat Moncrio - 482-2100

Received by BH Letter ☐ In Person ☐ Telephone ☒ Date 10-6-87 Time 7 PM M.

Inspector \_\_\_\_\_ INSPECTION Date \_\_\_\_\_ Time \_\_\_\_\_ M.

Report of Conditions County Police called in. DEP wanted an Inspector present. DEP couldn't figure out where spillage was coming from. he will check with Engineering. Dept 10-7-87 DEP took P.H. Sample. County Police said this was an ongoing problem. Vinnie Bednary contacted DEP last Friday. DEP will handle this problem.



N.J. DEPARTMENT OF  
ENVIRONMENTAL PROTECTION



**WALTER JANICEK**

BUREAU OF EMERGENCY RESPONSE  
2 Babcock Place  
West Orange, N.J. 07052

PHONE:  
(201) 669-3955  
24HR(609) 292-7172

INSPECTION Date \_\_\_\_\_ Time \_\_\_\_\_ M.

ATTACHMENT 14-2

Inspector \_\_\_\_\_

87 09/29 22:03

89-9 5536

TRENTON DISPA

87-09-50-02

0002

Form DEQ-023 A  
3/87

TD LOG# 6638

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIV. OF ENVIRONMENTAL QUALITY - BUR. OF COMMUNICATIONS AND SUPPORT SERVICES  
Phone: 609-282-7172

0702-11

## COMMUNICATIONS CENTER NOTIFICATION REPORT

CASE NO. 87 - 09 - 29 - 19-13  
(Yr) (Mo) (Day) (Time)RECEIVED - COMMUNICATIONS SUPPORT SERVICES  
87 09 29 P 7 13  
REC'D BY C. MCAFFEE / C.M. (Initials) REVIEWED BY FRANK GAGLIANO

INCIDENT REPORT BY: DEPUTY CHIEF MCGOWAN		Phone 201-743-4400 EXT 264	
Name		Street	
City BLOOMFIELD		State NEW JERSEY	
Affiliation/Title BLOOMFIELD FIRE DEPT.			
INCIDENT LOCATION: Transportation Facility <input checked="" type="checkbox"/> Other <input type="checkbox"/>			
Name (Site): WATESSING PARK STREAM		Phone	
Street GLENWOOD AVE.		City BLOOMFIELD	
County ESSEX		State N.J. Zip Code	
Date of Incident: 09 - 29 - 87 (Mo) (Day) (Yr)		Time: 19:00	
IDENTITY OF SUBSTANCE(S) SPILLED, RELEASED, ETC.: Known Suspected <input checked="" type="checkbox"/> Unknown			
Name of Substance(s) (Gas, Liquid, Solid): MILKY WHITE SUBSTANCE			
CAS Number: UNKNOWN			
Amount Released/Spilled Actual Potential Estimated			
Substance Contained (Y/N/U)			
Type of Release/Spill: Terminated <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent <input type="checkbox"/>			
Hazardous Material (Y/N) <input checked="" type="checkbox"/>			
NATURE OF INCIDENT: Complaint <input type="checkbox"/> Misd. Notification <input checked="" type="checkbox"/> Emergency <input type="checkbox"/> Sub. 28 <input type="checkbox"/>			
INCIDENT DESCRIPTION:			
Fire <input type="checkbox"/> Explosion <input type="checkbox"/> Air Rel <input type="checkbox"/> Spill <input type="checkbox"/> MVA <input type="checkbox"/> Derailment <input type="checkbox"/> Smoke/Dust <input type="checkbox"/>			
Odors <input type="checkbox"/> Sewage <input type="checkbox"/> N/P/O/S <input type="checkbox"/> Noise <input type="checkbox"/> Illegal Dumping <input checked="" type="checkbox"/> Wildlife <input type="checkbox"/>			
Equip Start-up/Shutdown, Equip Fail/Upset, etc. <input type="checkbox"/>			
XX Other (specify) POSSIBLE ILLEGAL DUMPING			
Injuries (Y/N/U) <input checked="" type="checkbox"/>		Public Exposure (Y/N/U) <input checked="" type="checkbox"/>	
Facility Evacuation (Y/N/U) <input checked="" type="checkbox"/>		Police at Scene (Y/N/U) <input checked="" type="checkbox"/>	
Contamination of Air <input type="checkbox"/> Land <input type="checkbox"/> X Water <input checked="" type="checkbox"/>		Assistance Requested (Y/N/U) <input checked="" type="checkbox"/>	
Potable Water Source (Y/N/U) <input checked="" type="checkbox"/>		Wind Direction/Speed ? / ?	
Receiving Water STREAM		Precipitation (rain/snow) ?	
Location Type: Residential <input type="checkbox"/> Industrial <input type="checkbox"/> X Rural <input checked="" type="checkbox"/>		Sensitive Population (Hosp, School, Nurs. Home) <input type="checkbox"/>	
STATUS AT INCIDENT SCENE FIRE DEPT CONFIRMS INCIDENT REPORT. BLOOMFIELD HEALTH DEPT WILL RESPOND THIS EVENING AND ONCE AGAIN ON THE MORNING OF 09-30-87.			
RESPONSIBLE PARTY: Known <input type="checkbox"/> Suspected <input checked="" type="checkbox"/> Unknown <input type="checkbox"/>			
Company Name INDUSTRIAL BLDG. ON BANK OF PARK		Phone	
Contact Title		Street	
City		County State Zip Code	
OFFICIALS NOTIFIED (Name/Title):			
NJSP: MR. PANZITTA H.O./BLOOMFIELD		Phone ANSW. PAGE	
Local Health: BLOOMFIELD P.D.		Phone 201-743-4400	
USEPA:		Phone	
Date/Time 09-29 / 19:27 (T/M)		Date/Time 09-29 / 19:19 (T/M)	
Date/Time 09-29 / 19:19 (T/M)		Date/Time (T/M)	
INCIDENT REFERRED TO:			
X DEQ <input type="checkbox"/> DWR <input type="checkbox"/> DSWM <input type="checkbox"/> DHSM <input type="checkbox"/> DHWM <input type="checkbox"/> DOW <input checked="" type="checkbox"/> DFB <input type="checkbox"/> DPF <input type="checkbox"/> DCJ <input type="checkbox"/> BCR <input type="checkbox"/>			
Region: Northern Metro Central Southern ER1 ER2			
1. Name/ATTN FRANK GAGLIANO / ER #2		Phone AT T.D. Date/Time 09-29 / 19:16 (T/M)	
2. Name/ATTN JOHN MIHATOV / L-5		Phone HOME Date/Time 09-29 / 19:27 (T/M)	
3. Name/ATTN		Phone Date/Time (T/M)	
IMMEDIATE DEP RESPONSE (Y/N) (Emergency (Y/N)) (Enforcement (Y/N))			

COMMENTS Refer D.Huma - Metro Enforcement

Teletype State Police  
Teletype Fish & Game

ATTACHMENT H-3

## NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

## DUTY OFFICER NOTIFICATION REPORT

CASE NO.

87-10-01-1030  
(Yr) (Mo) (Day) (Time)

DATE

10-01-87  
(Mo) (Day) (Yr)

REC'D BY

Paga / Chris

1

TD / BSR  
(Office)

<b>INCIDENT REPORT BY:</b>	
Name	Donofrio
Street	
City	
Affiliation/Title	Police
Phone	(201) 482-2100
<b>INCIDENT LOCATION:</b>	
Name (Site):	Transportation
Street	Facility
City	Other
County	
State	
Zip Code	
Date of Incident:	10-01-87
Time:	1030
<b>IDENTITY OF SUBSTANCE(S) SPILLED, RELEASED, ETC.</b>	
Name of Substance(s) (Gas, Liquid, Solid):	Known Suspected Unknown
CAS Number:	
Amount Released/Spilled	Actual Potential Estimated
Substance Contained (Y/N/U)	
Type of Release/Spill:	Terminated Continuous Intermittant
Hazardous Material (Y/N)	
<b>NATURE OF INCIDENT:</b>	
Complaint	Munic. Notification Emergency Sub. 20
<b>INCIDENT DESCRIPTION:</b>	
Fire Explosion Air Rel Spill MVA Derailment Smoke/Dust	
Odors Sewage NJPDES Noise Illegal Dumping Wildlife	
Equip Start-up/Shutdown, Equip Fail/Upset, etc.	
Other (specify)	
Injuries (Y/N/U)	Public Exposure (Y/N/U)
Facility Evacuation (Y/N/U)	Police at Scene (Y/N/U)
Public Evacuation (Y/N/U)	Firemen at Scene (Y/N/U)
Contamination of Air Land Water	Assistance Requested (Y/N/U)
Potable Water Source (Y/N/U)	Wind Direction/Speed
Receiving Water	Precipitation (rain/snow)
Location Type: Residential Industrial Rural Sensitive Population (Hosp, School, Nurs. Home)	
<b>STATUS AT INCIDENT SCENE</b>	
Police found & clean on Brook	
<b>RESPONSIBLE PARTY:</b>	
Known Suspected Unknown	
Company Name	Phone
Contact	Title
Street	
City	County State Zip Code
<b>OFFICIALS NOTIFIED (Name/Title):</b>	
NJSP:	Phone Date/Time (T/M)
Local Health:	Phone Date/Time (T/M)
Local Munic:	Phone Date/Time (T/M)
USEPA:	Phone Date/Time (T/M)
<b>INCIDENT REFERRED TO:</b>	
DEQ DWR DSWM DHSM DHWM DOH DFG DPF DCJ DCR	
Region: Northern Metro Central Southern ER1 ER2	
1. Name/Affil:	Phone Date/Time (T/M)
2. Name/Affil:	Phone Date/Time (T/M)
3. Name/Affil:	Phone Date/Time (T/M)
<b>IMMEDIATE DEP RESPONSE (Y/N)</b>	
(Emergency (Y/N))	Enforcement (Y/N)

COMMENTS

PD said PD will notify Local 40  
Dave - Gaudin

COPIES:

White - Lead Agency

Blue - Comm. Center

Pink - A310

Goldenrod - Other

ATTACHMENT

H-41

ATTACHMENT I

## COMMUNICATIONS CENTER NOTIFICATION REPORT

CASE NO. 8171-1016-1215-118196  
(Yr) (Mo) (Day) (Time)  
DATE 06-25-89 RECD BY C. McAfee CM  
(Mo) (Day) (Yr) (Initials)  
REVIEWED BY R. Anderson

NATURE OF INCIDENT: <input checked="" type="checkbox"/> Citizen Notification <input type="checkbox"/> Munic. Notification <input type="checkbox"/> Facil. Notification <input type="checkbox"/> Other Notification	
INCIDENT REPORT BY: <u>Anonymous Complainant</u> Phone <u>N/A.</u>	
Name _____	
Street _____	
Municipality _____ State _____	
Affiliation/Title _____	
INCIDENT LOCATION: <input type="checkbox"/> Transportation <input type="checkbox"/> Facility <input checked="" type="checkbox"/> Other	
Name (Site) <u>Stream / Watessing Park</u> Phone _____	
Street <u>off Glenwood Ave</u>	
Municipality <u>Bloomfield</u> County <u>Essex</u> State <u>N.J.</u> Zip Code _____	
Location Type: <input type="checkbox"/> Residential <input checked="" type="checkbox"/> Industrial <input checked="" type="checkbox"/> Rural <input type="checkbox"/> Sensitive Population (Hospital, School, Nursing Home)	
Date of Incident: <u>06-25-89</u> Time: <u>1800</u> (Mo) (Day) (Yr)	
IDENTITY OF SUBSTANCE(S) SPILLED, RELEASE, ETC.: <input type="checkbox"/> Known <input type="checkbox"/> Suspected <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> None	
Name of Substance(s): (Gas, Liquid, Solid) <u>Unknown</u>	
TCPA Chemical (Y/N/U) _____ CAS Number _____	
Amount Released/Spilled <u>Unknown</u> <input type="checkbox"/> Actual <input type="checkbox"/> Potential <input type="checkbox"/> Estimated	
Substance Contained (Y/N/U) _____	
Type of Release/Spill: <input type="checkbox"/> Terminated <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	
Hazardous Material (Y/N/U) _____ A310 Letter (Y/N) <u>0702</u> <u>01</u> COMU CODE REF CODE	
INCIDENT DESCRIPTION:	
<input type="checkbox"/> Fire <input type="checkbox"/> Explosion <input type="checkbox"/> Air Rel <input type="checkbox"/> Spill <input type="checkbox"/> Abandoned Containers <input checked="" type="checkbox"/> Illegal Dumping	
<input type="checkbox"/> MVA <input type="checkbox"/> Odors <input type="checkbox"/> Smoke/Dust <input type="checkbox"/> Sewage <input type="checkbox"/> NJPDES <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Wildlife	
<input type="checkbox"/> Equip. Startup/Shutdown, Equip. Fall/Upset, etc.	
<input type="checkbox"/> Other (Derailment, Ocean Dumping, Noise, etc.)	
Injuries (Y/N/U) _____	
Facility Evacuation (Y/N/U) _____	
Public Evacuation (Y/N/U) _____	
Contamination of <input type="checkbox"/> Air <input type="checkbox"/> Land <input checked="" type="checkbox"/> Water	
Receiving Water <u>Stream (unnamed)</u>	
Public Exposure (Y/N/U) _____	
Police at Scene (Y/N/U) _____	
Firemen at Scene (Y/N/U) _____	
Assistance Requested (Y/N/U) _____	
Wind Direction/Speed _____	
STATUS AT INCIDENT SCENE <u>Stream is clear before it flows past the location of the suspected responsible party. The stream is milky white after it passes the location of the suspected responsible party.</u>	
RESPONSIBLE PARTY: <input type="checkbox"/> Known <input checked="" type="checkbox"/> Suspected <input type="checkbox"/> Unknown	
Company Name <u>Peerless Tube</u> Phone _____	
Contact _____ Title _____	
Street <u>off Glenwood Ave</u>	
Municipality <u>Bloomfield</u> County <u>Essex</u> State <u>N.J.</u> Zip Code _____	
OFFICIALS NOTIFIED (Name/Title):	
NJSP _____ / <u>OFM</u> Phone _____ Date/Time <u>06-25-89</u> <u>OTM</u>	
Local Health _____ / _____ Phone _____ Date/Time _____ (T/M)	
Local Munic. <u>Deputy Chief McCarthy</u> <u>Bloomfield Fire Dept.</u> Phone <u>201-650-4161</u> Date/Time <u>06-25-89</u> <u>1819</u> (T/M)	
Other _____ / _____ Phone _____ Date/Time _____ (T/M)	
INCIDENT REFERRED TO:	
<input checked="" type="checkbox"/> DEQ <input type="checkbox"/> DWR <input type="checkbox"/> DSWM <input type="checkbox"/> DHSM <input type="checkbox"/> DOH <input type="checkbox"/> DFG <input type="checkbox"/> DPF <input type="checkbox"/> DCJ <input type="checkbox"/> DCR	
Region: <input type="checkbox"/> Northern <input type="checkbox"/> Metro <input type="checkbox"/> Central <input type="checkbox"/> Southern <input checked="" type="checkbox"/> ER1 <input type="checkbox"/> ER2	
1. Name/Affil <u>Joe Doyle</u> / <u>ERDO</u> Phone <u>201-25-55</u> Date/Time <u>06-25-89</u> <u>1814</u> (T/M)	
2. Name/Affil _____ / _____ Phone _____ Date/Time _____ (T/M)	
3. Name/Affil _____ / _____ Phone _____ Date/Time _____ (T/M)	

COMMENTS 1817 Communication Center contacted operator #15 of the Bloomfield P.D. Operator #15 transferred the call to the Deputy Chief of the Bloomfield Fire Dept for the A-310 Notification.

COPIES: White - Comm. Center

Yellow - Lead Agency

Pink - A310

ATTACHMENT I

ATTACHMENT J

COMMUNICATIONS CENTER NOTIFICATION REPORT

CASE NO. 910-1011-112-101316  
(Yr) (Mo) (Day) (Time)

DATE 01-12-90 RECD BY HART REVIEWED BY [Signature]  
(Mo) (Day) (Yr) (Initials)

NATURE OF INCIDENT: ☐ Citizen Notification ☐ Munic. Notification ☒ Facility Notification ☐ Other Notification

INCIDENT REPORT BY: BOB KUNZE Phone 201-685-4247  
Street RAMSEY & PIDEH  
Municipality BRIDGEWATER State NJ  
Affiliation/Title CONSULTANT

INCIDENT LOCATION: ☐ Transportation ☒ Facility ☐ Other  
Name (Site) PEERLESS TUBE Phone ---  
Street 58 LOCUST AVE  
Municipality BLOOM FIELD County ESSEX State NJ Zip Code ---  
Location Type: ☐ Residential ☒ Industrial ☐ Rural ☐ Sensitive Population (Hospital, School, Nursing Home)  
Date of Incident: 1-1-90 Time: UNKNOWN  
(Mo) (Day) (Yr)

IDENTITY OF SUBSTANCE(S) SPILLED, RELEASE, ETC.: ☒ Known ☐ Suspected ☐ Unknown ☐ None  
Name of Substance(s): (Gas, Liquid, Solid) FUEL OIL  
TCPA Chemical ☒ CAS Number ---  
Amount Released/Spilled UNKNOWN ☐ Actual ☐ Potential ☐ Estimated  
Substance Contained ☒ YNU  
Type of Release/Spill: ☒ Terminated ☐ Continuous ☐ Intermittent  
Hazardous Material ☒ A310 Letter ☒ 0702 99  
COMU CODE REF CODE

INCIDENT DESCRIPTION:  
☐ Fire ☐ Explosion ☐ Air Rel ☐ Spill ☐ Abandoned Containers ☐ Illegal Dumping  
☐ MVA ☐ Odors ☐ Smoke/Dust ☐ Sewage ☐ NJPDES ☒ L.U.S.T. ☐ Wildlife  
☐ Equip. Startup/Shutdown, Equip. Fail/Upset, etc.  
☒ Other (Derailment, Ocean Dumping, Noise, etc.) CONSULTANT WILL TEST WITH WELLS  
Injuries ☒ YNU  
Facility Evacuation ☒ YNU  
Public Evacuation ☒ YNU  
Contamination of ☒ Air ☒ Land ☐ Water  
Receiving Water NONE  
Public Exposure ☒ YNU  
Police at Scene ☒ YNU  
Firemen at Scene ☒ YNU  
Assistance Requested ☒ YNU  
Wind Direction/Speed ---

STATUS AT INCIDENT SCENE DURING CLOSURE OF TANK CONTAMINATION  
WAS FOUND. CONSULTANT WILL FIX PROBLEM AND CLEAN  
UP SOIL.

RESPONSIBLE PARTY: ☒ Known ☐ Suspected ☐ Unknown  
Company Name PEERLESS TUBE Phone ---  
Contact --- Title ---  
Street 58 LOCUST ST  
Municipality BLOOM FIELD County ESSEX State NJ Zip Code 07003

OFFICIALS NOTIFIED (Name/Title):  
NJSP 10PM Phone --- Date/Time 1-12-90 (T/M)  
Local Health --- Phone --- Date/Time --- (T/M)  
Local Munic. OPER & G BLOOMFIELD Phone 680-4000 Date/Time 1-12-90 1950 (T/M)  
Other --- Phone --- Date/Time --- (T/M)

INCIDENT REFERRED TO:  
☒ DEO ☒ DWR ☐ DSWM ☐ DHSM ☐ DOH ☐ DFG ☐ DFF ☐ DCJ ☐ DCR  
Region: ☐ Northern ☐ Metro ☐ Central ☐ Southern ☐ ER1 ☐ ER2  
1. Name/Attn ERHQ Phone --- Date/Time 1-12-90 (T/M)  
2. Name/Attn --- Phone --- Date/Time --- (T/M)  
3. Name/Attn --- Phone --- Date/Time --- (T/M)

COMMENTS  
FAX - TO-0495-06M

COPIES: White - Comm. Center Yellow - Lead Agency Pink - A310

January 18, 1990

New Jersey Department of Environmental Protection  
Division of Water Resources  
Bureau of Underground Storage Tanks  
401 East State Street  
Trenton, New Jersey 08625

Attention: Mr. Dave Reubans

Re: Peerless Tube Company, Bloomfield, Essex County

Dear Mr. Reubans:

This letter will confirm our reporting of a spill from an underground storage tank located at the Peerless Tube Company in Bloomfield, Essex County. This release was reported to Operator #4 on the NJDEP hotline on January 12, 1990. As we discussed, Metcalf & Eddy Technologies, Inc. (M&E Tech), has been retained by Peerless Tube to prepare the DICAR addressing this release.

If you have any questions regarding this incident, please contact me at 201/685-4247.

Yours very truly,

METCALF & EDDY TECHNOLOGIES, INC.

  
Robert J. Kunze  
Project Manager

RJK:cel

cc: Barry Marell  
Alan Iannuzzi

**RECEIVED**  
JAN 29 1990

DEPT. ENVIRON. PROTECTION  
Division Water Resources  
Bureau of Underground Storage Tanks



ATTACHMENT K

COMPANY NAME PEERLESS TUBE Company

PLANT I.D.# 05066

## LEGAL ACTION LOG

[illegible]

ATTACHMENT L



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL QUALITY  
CN 027, TRENTON, NJ 08625



IN THE MATTER OF :  
PEERLESS TUBE COMPANY :  
58-76 LOCUST AVENUE :  
BLOOMFIELD, N.J. 07003 :  
LOG #A871368 MRA, CDS :

ADMINISTRATIVE ORDER AND

NOTICE OF CIVIL ADMINISTRATIVE

PENALTY ASSESSMENT

This ORDER and NOTICE are issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (the "Department") by N.J.S.A. 13:1D-1 et seq., and the Air Pollution Control Act, N.J.S.A. 26:2C-1 et seq. (the "Act"), and duly delegated to the Assistant Director for Enforcement of the Division of Environmental Quality pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. As the result of an investigation conducted on September 18, and October 14, 1987, the Department has determined that at your facility located at 58-76 Locust Avenue, Town of Bloomfield, Lot(s) 60, Block(s) 129, County of Essex, State of New Jersey, (ID #05006), you did cause, suffer, allow or permit lacquer odors from coating operations to be emitted into the outdoor atmosphere in quantities which resulted in air pollution, in violation of N.J.A.C. 7:27-5.2(a).

ORDER

2. NOW, THEREFORE, IT IS HEREBY ORDERED THAT you immediately cease emitting, into the outdoor atmosphere substances in quantities which shall result in air pollution.
3. Based upon the above FINDINGS, and a review of the entire matter, the Department hereby assesses a Civil Administrative Penalty against you in the amount of \$4,000.00. Payment must be submitted to the Department within twenty (20) calendar days of receipt of this Order and Notice unless you request a hearing in accordance with the provisions of Paragraph 4 below. Payment must be made to the Department at the address listed in Paragraph B of Attachment I.

CDS

FIELD RECORD OF VIOLATION

VIOLATION  
DATE

10/14/87

TIME AT SITE

0930 <sup>a.m.</sup>  
from p.m.

1045 <sup>a.m.</sup>  
to p.m.

I.D. #

05066

OFFICE/BUREAU

METRO

Sec. A

PERSON IN  
VIOLATION

FULL BUSINESS NAME

PEERLESS TUBE CO.

MAILING ADDRESS

58-76 LOCUST AVE

Bloomfield

07003

TYPE OF OWNERSHIP:

☐ Individual

☐ Partnership

☒ Corporation

☐ Municipal

Type

NAME OF OWNER, PARTNERS, OFFICERS, OFFICIALS

WILLIAM REMINGTON

TITLE

PRES.

PERSONS INTERVIEWED

ALAN IANUZZI (PLT. ENG)

PHONE:

201 743-5100

PERSON AUTHORIZED TO RECEIVE PROCESSES

ALAN IANUZZI

Name

MAILING ADDRESS

ABOVE

No.

Street

City

Zip Code

REMARKS:

Sec. B

LOCATION OF  
VIOLATION

LOCATION ADDRESS

ABOVE

No.

Street

Municipality

County

PREMISES OCCUPIED AS:

☒ Owner

☐ Lessee

☐ Tenant

OWNER

ABOVE

Name

Street

City

Sec. C

DETAILS OF  
VIOLATION

CODE REFERENCE:

Chapter(s)

7-27 5

Section(s)

2

Paragraph(s)

A

DETAILS

SAID COMPANY DID ALLOW ODORS FROM THEIR SURFACE COATING OPERATIONS TO BE EMITTED INTO THE OUTDOOR AIR RESULTING IN A.P. SPECIFICALLY, ON THIS DATE THE ODORS IMPACTED A RESIDENTIAL NEIGHBORHOOD AND NEGATIVELY AFFECTED THE ENJOYMENT OF LIFE & PROPERTY. (SEE ATTACHED STATEMENT OF COMPLAINT). THE MODERATE PRINT ODOR WAS ALSO DETECTED BY THIS WRITER AT THE COMPLAINANT'S HOME. A NEIGHBORHOOD SURVEY AND PLANT 360° VERIFIED THE CITED AS THE SOURCE. A FACILITY INSPECTION SHOWED ALL A.P. CONTROL EQUIPMENT WAS OPERATING SATISFACTORILY BUT ODORS WERE OBSERVED NEAR ALL ROOF TOP STACKS IN OPERATION. MRO FILES WOULD INDICATE THIS IS ALMOST DAILY OCCURRANCE.

REMARKS

INFORMED IANUZZI OF POSSIBLE ENFORCEMENT ACTIONS.

RECOMMENDED ACTION

ORDER 111

10-16-87

Reviewed By

Byron B Sullivan

10-16-87

Date

Date

Date

Andrew Turner

Inspector's Signature

ANDREW TURNER

Print Name

PRINC. ENV. SPEC.

Title

ATTACHMENT L-2



NAME: STANLEY PERLICKI

AGE: 62 PHONE: 743-6388

ADDRESS: 88 WILLOW ST. BLOOMFIELD N. J.

ADDRESS WHERE EMPLOYED (IF APPLICABLE) \_\_\_\_\_

MARRIED TO: \_\_\_\_\_

LIVED (WORKED) AT ABOVE ADDRESS FOR ABOUT 32 YEARS

SUBJECT TO: STRONG ODOR (LACQUER) PAINT

SOURCE: PERALLES TUBE

HAVE NOTICED FOR ABOUT 75 YEARS

RECENTLY NOTICED ON 10.14.87 AT ABOUT 9 45 AM

I WAS MY BACK YARD

PHYSICAL EFFECT: HEADACHE + NAUSEOUS

DISTANCE FROM PLANT TO MY HOME (WORK) 50 FEET APPROXIMATELY

I HAVE READ AND UNDERSTAND THE ABOVE STATEMENT AND IT IS TRUE

SIGNATURE Stanley Perlucki

WITNESSED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

ATTACHMENT L-3

VIOLATION  
DATE

Sept 18<sup>th</sup> 1987

TIME AT SITE

9:25  
from

a.m.  
p.m.

9:55  
to

a.m.  
p.m.

I.D. #

05066

OFFICE/BUREAU

METRO

Sec. A

FULL BUSINESS NAME Peerless Tube Company  
MAILING ADDRESS 58 Locust Ave Bloomfield 07003  
No. Street City Zip Code  
TYPE OF OWNERSHIP: ☐ Individual ☐ Partnership ☒ Corporation ☐ Municipal  
NAME OF OWNER, PARTNERS, OFFICERS, OFFICIALS William Remington, President  
Type  
TITLE President  
PERSONS INTERVIEWED Fred Remington PHONE: 201 743-5100  
PERSON AUTHORIZED TO RECEIVE PROCESSES ALAN IANUZZI  
MAILING ADDRESS 58 Locust Ave Bloomfield 07003  
No. Street City Zip Code  
REMARKS: Collapsible Metal Tubes & Aerosol Cans

PERSON IN  
VIOLATION

Sec. B

LOCATION ADDRESS ABOVE  
No. Street Municipality County  
Book Plate Lot 60 Block 129  
PREMISES OCCUPIED AS: ☒ Owner ☐ Lessee ☐ Tenant  
OWNER Peerless Tube 58 Locust Ave Bloomfield  
Name Street City

LOCATION OF  
VIOLATION

Sec. C

CODE REFERENCE: Chapter(s) 7:27.5 Section(s) 2 Paragraph(s) A  
DETAILS IN Response to citizen complaint  
Description odor - PAINT lacquer odor 9:30 am  
Peerless Tube  
walking outside on Right Side of house.  
observed smoke coming from stack area. At Time  
of inspection, we (DAN Taylor and Vincent Bednarz)  
"smelt" a strong odor (as described above)  
Due to past complaints, we recognized the odor as being typical of Peer Tube.  
REMARKS Fred Remington (Vice Pres.) said that he was not authorized  
to give a tour of facility. President was not in on 9/18.  
RECOMMENDED ACTION ORDER

DETAILS OF  
VIOLATION

Reviewed By

Byron B Sullivan 10-07-87

Sept. 18, 1987

Date

Sept. 18, 1987

Date

Sept. 18, 1987

Date

V. Bednarz / DAN Taylor

Inspector's Signature

V. Bednarz / DAN TAYLOR

Print Name

Sanitary Inspector

Title

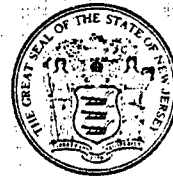
☒ Check here if reverse side is used.

ATTACHMENT 10/28/87

**ATTACHMENT M**



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL QUALITY  
CN 027, TRENTON, NJ 08625



IN THE MATTER OF	:	ADMINISTRATIVE ORDER AND
PEERLESS TUBE COMPANY	:	
58 LOCUST AVENUE	:	NOTICE OF CIVIL ADMINISTRATIVE
BLOOMFIELD, N.J. 07003	:	
LOG #A880730 MRA	:	PENALTY ASSESSMENT

This ORDER and NOTICE are issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (the "Department") by N.J.S.A. 13:1D-1 et seq., and the Air Pollution Control Act, N.J.S.A. 26:2C-1 et seq. (the "Act"), and duly delegated to the Assistant Director for Enforcement of the Division of Environmental Quality pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. As the result of an investigation conducted on May 3, 1988, the Department has determined that at your facility located at 58 Locust Avenue, Township of Bloomfield, Lot(s) 60, Block(s) 129, County of Essex, State of New Jersey, (ID #05066), you did cause, suffer, allow or permit odors from spray painting and paint coating operations to be emitted into the outdoor atmosphere in quantities which resulted in air pollution, in violation of N.J.A.C. 7:27-5.2(a).

ORDER

2. NOW, THEREFORE, IT IS HEREBY ORDERED THAT you immediately cease emitting, into the outdoor atmosphere substances in quantities which shall result in air pollution.
3. Based upon the above FINDINGS, and a review of the entire matter, the Department hereby assesses a Civil Administrative Penalty against you in the amount of \$4,000.00. Payment must be submitted to the Department within twenty (20) calendar days of receipt of this Order and Notice unless you request a hearing in accordance with the provisions of Paragraph 4 below. Payment must be made to the Department at the address listed in Paragraph B of Attachment I.

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL QUALITY FIELD RECORD OF VIOLATION

May 3, 1988

TIME AT SITE 10:30 <sup>a.m.</sup> 11:01 <sup>a.m.</sup>  
from to  
11:15 AM--11:45 AM

I.D. # 05066

OFFICE/BUREAU M.F.O. - A.P.C.

Sec. A PERSON IN VIOLATION	FULL BUSINESS NAME	PEERLESS TUBE COMPANY		
	MAILING ADDRESS	58 LOCUST AVENUE, BLOOMFIELD, N.J. 07003		
	TYPE OF OWNERSHIP:	<input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Municipal		
	NAME OF OWNER, PARTNERS, OFFICERS, OFFICIALS	William Remington, Fred Remington		
Sec. B LOCATION OF VIOLATION	TITLE	President and Vice-President		
	PERSONS INTERVIEWED	Pat Brundage/Domenick Iorio		
	PERSON AUTHORIZED TO RECEIVE PROCESSES			
	MAILING ADDRESS	58 Locust Avenue, Bloomfield, N.J. 07003		
Sec. C DETAILS OF VIOLATION	REMARKS:	Company phone number 743-5100, Manufacturing of collapsable metal tubes and aerosol cans (the spray painting of)		
	LOCATION ADDRESS	58 Locust Avenue, Bloomfield, Essex County		
	PREMISES OCCUPIED AS:	<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Tenant		
	OWNER	Peerless Tube Co. 58 Locust Avenue Bloomfield		
Sec. C DETAILS OF VIOLATION	CODE REFERENCE:	Chapter(s) 7:27 Section(s) 5:2 Paragraph(s) (a)		
	DETAILS	Inspection done in response to citizen complaint. Observations made from the property of 88 Willow Street. Odor observed at about 10:20 A.M. Mr. Perucki observed a laquor type odor and complained of nausea, headache, and tearing of the eyes.		
	REMARKS	Plant access denied by Mr. Fred Remington at about 10:35A.M. Plant accessed granted by a Pat Brundage and re-entered at about 11:15A.M.		
	RECOMMENDED ACTION	We were permitted access only after obtaining Vanessa Day's assistance from the E.P.A.		

Reviewed By May 3, 1988

May 3, 1988

May 3, 1988

Leo Beck 5/5/88

Date

Date

Date

Daniel Taylor/Vincent Bednarz

Inspector's Signature

Print Name

Sanitary Inspectors

Township of Bloomfield

ATTACHMENT H-2

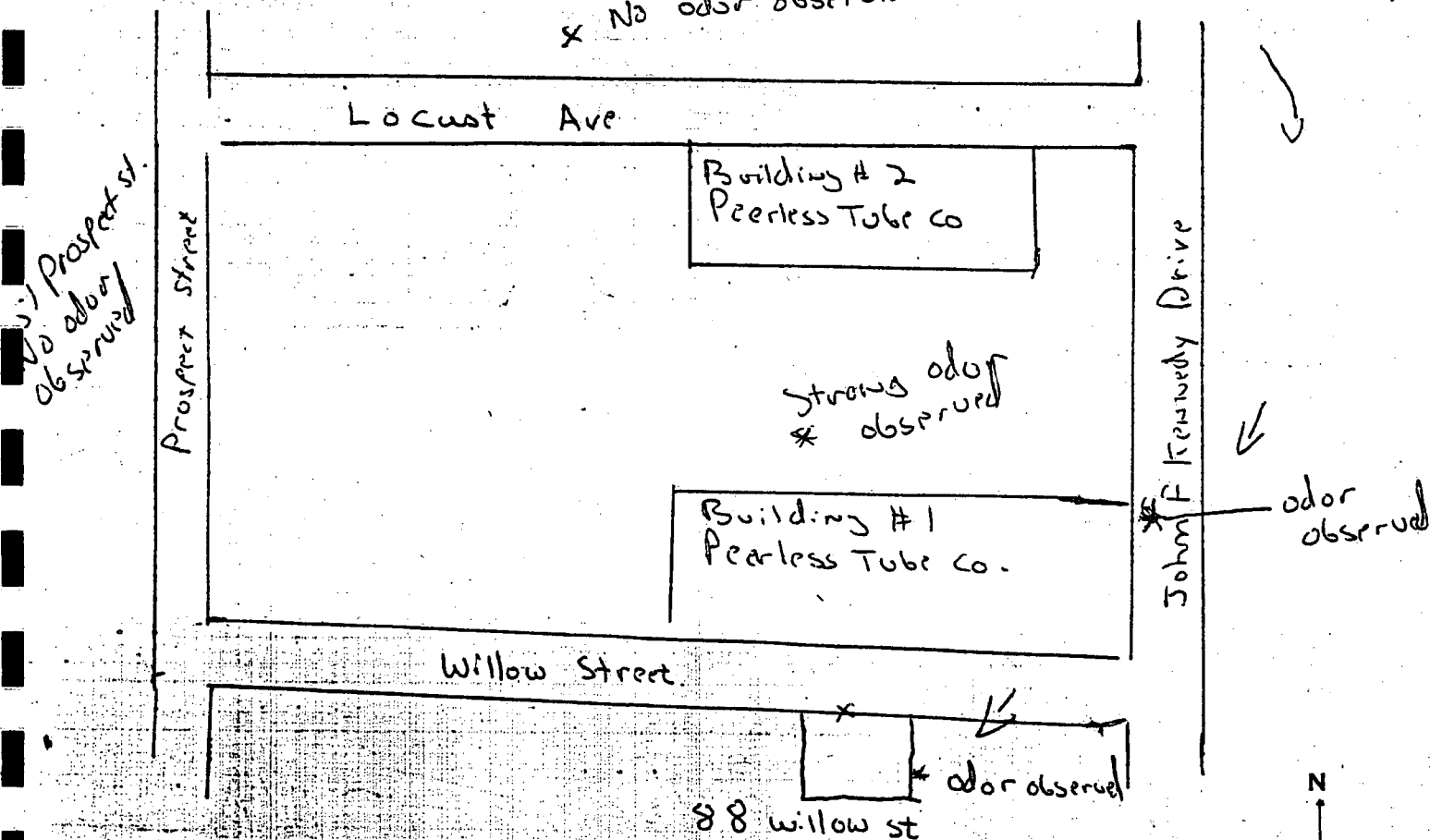


# ADDITIONAL VIOLATIONS

DETAILS OF VIOLATION	CODE REFERENCE: Chapter(s) _____ Section(s) _____ Paragraph(s) _____
	Intermittant odor observed on 88 Willow Street property line.
	DETAILS _____
	Odor was that of a laquer paint. Spray paint operation being done at the time of inspection in Building #2, and a coating operation in Building #1.
	_____
REMARKS	Access denied by Mr. Fred Remington at about 11:01 A.M.
	Access gained at about 11:20 A.M. after obtaining aid from E.P.A. (W.C.)
	RECOMMENDED ACTION _____

Draw diagram below showing location and distances of violation with respect to street and/or landmarks or unusual site conditions.

Slight wind coming From East to west and North to South  
 \* No odor observed wind direction



ATTACHMENT N



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL QUALITY  
CN 027, TRENTON, NJ 08625



IN THE MATTER OF	:	ADMINISTRATIVE ORDER AND
PEERLESS TUBE COMPANY	:	
58 LOCUST AVENUE	:	NOTICE OF CIVIL ADMINISTRATIVE
BLOOMFIELD, NEW JERSEY 07003	:	
LOG: #A890913 MRA,	:	PENALTY ASSESSMENT

This ORDER and NOTICE are issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (the "Department") by N.J.S.A. 13:1D-1 et seq., and the Air Pollution Control Act, N.J.S.A. 26:2C-1 et seq. (the "Act"), and duly delegated to the Assistant Director for Enforcement of the Division of Environmental Quality pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. As the result of an investigation conducted on March 9, 1989, the Department has determined that at your facility located at 58 Locust Avenue, Town of Bloomfield, Lot(s) 60, Block(s) 129, County of Essex, State of New Jersey, (ID #05066), you did cause, suffer, allow or permit odors from paint coating operations to be emitted into the outdoor atmosphere in quantities which resulted in air pollution in violation of N.J.A.C. 7:27-5.2(a).

ORDER

2. NOW, THEREFORE, IT IS HEREBY ORDERED THAT YOU IMMEDIATELY cease emitting, into the outdoor atmosphere substances in quantities which shall result in air pollution.

PENALTY

3. Based upon the above FINDINGS, and a review of the entire matter, the Department hereby assesses a Civil Administrative Penalty against you in the amount of \$6,000.00. Payment must be submitted to the Department within twenty (20) calendar days of receipt of this Order and Notice unless you request a hearing in accordance with the provisions of Paragraph 4 below. Payment must be made to the Department at the address listed in Paragraph B of Attachment I.

ATTACHMENT. NI

## FIELD RECORD OF VIOLATION

VIOLATION  
DATE

3/9/89

TIME AT SITE

9:43

a.m.  
p.m.

11:35

a.m.  
p.m.

I.D. #

05066

OFFICE/BUREAU

Metro

Sec. A

PERSON IN  
VIOLATION

FULL BUSINESS NAME

Peerless Tube Company

MAILING ADDRESS

58 Locust Avenue

Bloomfield

07003

TYPE OF OWNERSHIP:

☐ Individual☐ Partnership☒ Corporation☐ Municipal

Type

NAME OF OWNER, PARTNERS, OFFICERS, OFFICIALS

William Remington

TITLE

President

PERSONS INTERVIEWED

ALAN J. TANUZZI - PROJECT ENGINEER

KRIS HOFFMANN - INDUSTRIAL HYGIENIST

PHONE: (201) 743-5100

PERSON AUTHORIZED TO RECEIVE PROCESSES

ALAN J. TANUZZI

MAILING ADDRESS

58 LOCUST AVENUE

BLOOMFIELD

07003

REMARKS:

Sec. B

LOCATION OF  
VIOLATION

LOCATION ADDRESS

58 LOCUST AVENUE

BLOOMFIELD

ESSEX

PREMISES OCCUPIED AS:

☒ Owner☐ Lessee☐ Tenant

OWNER

Peerless Tube Company

58 LOCUST AVENUE

BLOOMFIELD

Sec. C

DETAILS OF  
VIOLATION

CODE REFERENCE:

Chapter(s) 7:27

Section(s) 5.2

Paragraph(s) (a)

DETAILS

Investigation disclosed the omission of air contaminants in a quantity and duration which resulted in an excessive and verified citizen odor complaint. The primary source of odors appeared to be from Dept 9\* odor abatement and odor control unit and not from emission vents include (but are not limited to) stacks from the outside coat drying and topcoat drying and fugitive emissions from drying areas on the second floor. The odors were of a plastic-like paint nature. SEE LEO-067A for INFECTIOUS DETAILS.

REMARKS

Concern source of odor emissions and are working with consultants to remedy situation.

RECOMMENDED ACTION

ORDER

\*located in the North building (see drawing on reverse)

Reviewed By

Leo Beck 3/13/89

Date

Michael A. Klein

Inspector's Signature

MICHAEL A. KLEIN

Print Name

SR. ENV'TL ENGR

Title

ATTACHMENT OVER N-2

# STATEMENT OF COMPLAINT

Name STANLEY PERUCKI

Address 88 WILLOW ST. BLOOMFIELD N.J.

Phone 743-6388 Age 64

Address Where Employed (if applicable) \_\_\_\_\_

Lived (Worked) at Above Address About 34 YEARS [month(s)/year(s)]

Nature of Complaint ~~ODOR FROM PERUCKI TUB~~

BAD ODOR. PERUCKI TUBS.

Source of Complaint ~~PERUCKI~~ + PERUCKI TUBS

Recently Noticed On MARCH 8, 1989 At About 8 P.M. - 9 P.M. - 7 A.M. - 9 P.M.

Distance from Facility to Home (Work) Approximately 50 Feet

This Condition has been continuing for about 15 YEARS (Days, Months, Years)

Describe Activity and where problem was noticed WHEN EXIT FROM  
BACK & FRONT OF MY HOUSE, OUTDOORS.

Physical Effect(s) and/or Condition(s) HEADACHES + SICK FEELING IN  
STOMACH.

I have written the above statement and it is true.

Stanley Perucki  
Signature

3/9/89  
Date

Witness of Signature:

Michael A. Klein  
Signature

3/9/89  
Date

ATTACHMENT N-3



ATTACHMENT O



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL QUALITY  
CN 027, TRENTON, NJ 08625



IN THE MATTER OF	:	ADMINISTRATIVE ORDER AND
PEERLESS TUBE COMPANY	:	
58 LOCUST AVENUE	:	NOTICE OF CIVIL ADMINISTRATIVE
BLOOMFIELD, N.J. 07003	:	
LOG #A891533 MRA, CDS	:	PENALTY ASSESSMENT

This ORDER and NOTICE are issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (the "Department") by N.J.S.A. 13:1D-1 et seq., and the Air Pollution Control Act, N.J.S.A. 26:2C-1 et seq. (the "Act"), and duly delegated to the Assistant Director for Enforcement of the Division of Environmental Quality pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. As the result of an investigation conducted on May 24, 1989, the Department has determined that at your facility located at 58 Locust Avenue, Town of Bloomfield, Lot(s) 60, Block(s) 129, County of Essex, State of New Jersey, (ID #05066), you did cause, suffer, allow or permit odors from painting operations in Dept #9 to be emitted into the outdoor atmosphere in quantities which resulted in air pollution in violation of N.J.A.C. 7:27-5.2(a).

ORDER

2. NOW, THEREFORE, IT IS HEREBY ORDERED THAT YOU IMMEDIATELY cease emitting, into the outdoor atmosphere substances in quantities which shall result in air pollution.

PENALTY

3. Based upon the above FINDINGS, and a review of the entire matter, the Department hereby assesses a Civil Administrative Penalty against you in the amount of \$6,000.00. Payment must be submitted to the Department within twenty (20) calendar days of receipt of this Order and Notice unless you request a hearing in accordance with the provisions of Paragraph 4 below. Payment must be made to the Department at the address listed in Paragraph E of Attachment I.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL QUALITY

CU3 A1 VOS  
MAY 5-26-89

**FIELD RECORD OF VIOLATION**

VIOLATION DATE 5/24/89 TIME AT SITE 9:45 <sup>a.m.</sup> 11:15 <sup>a.m.</sup>  
from to I.D. # 05066

OFFICE/BUREAU METRO REGIONAL OFFICE/ENFORCEMENT

PERSON IN VIOLATION	Sec. A	FULL BUSINESS NAME <u>PERLESS TUBE COMPANY</u>
		MAILING ADDRESS <u>58</u> <u>LOCUST AVENUE</u> <u>BLOOMFIELD</u> <u>N.J. 07003</u> No. Street City Zip Code
		TYPE OF OWNERSHIP: <input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Municipal <u>          </u> Type
		NAME OF OWNER, PARTNERS, OFFICERS, OFFICIALS <u>WILLIAM REMINGTON</u>
LOCATION OF VIOLATION		TITLE <u>PRESIDENT</u>
		PERSONS INTERVIEWED <u>ALAN LANUZZI - PROJECT ENGINEER</u> <u>KRIS HOFFMAN - INDUSTRIAL HYGIENIST</u> PHONE: <u>(201) 743-5100</u>
		PERSON AUTHORIZED TO RECEIVE PROCESSES <u>KRIS HOFFMAN</u> Name
		MAILING ADDRESS <u>58</u> <u>LOCUST AVENUE</u> <u>BLOOMFIELD</u> <u>N.J. 07003</u> No. Street City Zip Code
DETAILS OF VIOLATION	Sec. B	REMARKS: <u>          </u>
		LOCATION ADDRESS <u>58</u> <u>LOCUST AVENUE</u> <u>BLOOMFIELD</u> <u>ESSEX</u> No. Street Municipality County
		PREMISES OCCUPIED AS: <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Tenant
		OWNER <u>PERLESS TUBE COMPANY</u> <u>58</u> <u>LOCUST AVENUE</u> <u>BLOOMFIELD</u> Name Street City
	Sec. C	CODE REFERENCE: Chapter(s) <u>7:27</u> Section(s) <u>5.2</u> Paragraph(s) <u>(a)</u>
		DETAILS <u>During complaint investigation, odor were</u> <u>verified on &amp; around the property of the complainant</u> <u>at 9:20 AM on May 24, 1989, intensity being #2</u> <u>on the scale. Weather conditions during the time of</u> <u>investigation were as follows:</u> <u>Temperature: ~ 62°F</u> <u>WIND DIRECTION: FROM N TO E @ 14 MPH.</u> <u>The primary source of odors appeared to be from</u>
		REMARKS <u>          </u>
		RECOMMENDED ACTION <u>ORDER</u> <u>5-26-89</u>

Reviewed By Gerald DeLuca 5/25/89 Date  
Byron G. Sullivan 5-26-89 Date  
Date  
Date

[Signature] Inspector's Signature  
Nehal G. Patel Print Name  
Env. Spec. Trainer Title  
ATTACHMENT 02

ATTACHMENT P



Jorge H. Berkowitz, Ph.D.  
Director

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL QUALITY  
CN 027, TRENTON, NJ 08625

Let's protect our earth



Anthony J. McMahon, Assistant Director  
Environmental Enforcement

IN THE MATTER OF : ADMINISTRATIVE ORDER AND  
PEERLESS TUBE COMPANY :  
58 LOCUST AVENUE :  
BLOOMFIELD, N.J. 07003 : NOTICE OF CIVIL ADMINISTRATIVE  
LOG #A891615 MRA, CDS : PENALTY ASSESSMENT

This ORDER and NOTICE are issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (the "Department") by N.J.S.A. 13:1D-1 et seq., and the Air Pollution Control Act, N.J.S.A. 26:2C-1 et seq. (the "Act"), and duly delegated to the Assistant Director for Enforcement of the Division of Environmental Quality pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. As the result of an investigation conducted on June 7, 1989, the Department has determined that at your facility located at 58 Locust Avenue, Town of Bloomfield, Lot(s) 60, Block(s) 129, County of Essex, State of New Jersey, (ID #05006), you did cause, suffer, allow or permit odors from paint coating operations to be emitted into the outdoor atmosphere in quantities which resulted in air pollution in violation of N.J.A.C. 7:27-5.2(a).

ORDER

2. NOW, THEREFORE, IT IS HEREBY ORDERED THAT YOU IMMEDIATELY cease emitting, into the outdoor atmosphere substances in quantities which shall result in air pollution.

PENALTY

3. Based upon the above FINDINGS, and a review of the entire matter, the Department hereby assesses a Civil Administrative Penalty against you in the amount of \$6,000.00. Payment must be submitted to the Department within twenty (20) calendar days of receipt of this Order and Notice unless you request a hearing in accordance with the provisions of Paragraph 4 below. Payment must be made to the Department at the address listed in Paragraph E of Attachment I.

FIELD RECORD OF VIOLATION

VIOLATION DATE JUNE 7, 1989 TIME AT SITE 9:30 <sup>a.m.</sup> 10:20 <sup>p.m.</sup> I.D. # 05066

OFFICE/BUREAU METRO REGIONAL OFFICE

Sec. A PERSON IN VIOLATION

FULL BUSINESS NAME PEERLESS TUBE COMPANY

MAILING ADDRESS 58 LOCUST AVENUE BLOOMFIELD 07003  
No. Street City Zip Code

TYPE OF OWNERSHIP: ☐ Individual ☐ Partnership ☒ Corporation ☐ Municipal Type

NAME OF OWNER, PARTNERS, OFFICERS, OFFICIALS WILLIAM REMINGTON

TITLE PRESIDENT

PERSONS INTERVIEWED ALAN J. IANUZZI - PROJECT ENGINEER KRIS HOFFMAN - INDUSTRIAL HYGIENIST PHONE: (201) 743-5106

PERSON AUTHORIZED TO RECEIVE PROCESSES ALAN J. IANUZZI Name

MAILING ADDRESS 58 LOCUST AVENUE BLOOMFIELD 07003  
No. Street City Zip Code

REMARKS:

Sec. B LOCATION OF VIOLATION

LOCATION ADDRESS 58 LOCUST AVENUE BLOOMFIELD ESSEX  
No. Street Municipality County

Book Plate \_\_\_\_\_ Lot 60 Block 129

PREMISES OCCUPIED AS: ☒ Owner ☐ Lessee ☐ Tenant

OWNER - PEERLESS TUBE COMPANY 58 LOCUST AVE BLOOMFIELD  
Name Street City

Sec. C DETAILS OF VIOLATION

CODE REFERENCE: Chapter(s) 7:27 Section(s) 5.2 Paragraph(s) (a)

DETAILS ABOVE COMPANY PERMITTED AIR CONTAMINANTS TO BE EMITTED INTO THE AIR WHICH RESULTED IN AN ODOR (STRONG) AND I VERIFIED CITIZEN COMPLAINT. ODOR WAS CONFIRMED AS A FOUR ON THE ODOR THRESHOLD SCALE OF ONE TO FIVE.

ABOVE COMPANY PRODUCES ALUMINUM TUBES AND PAINTS THEM ON SEVERAL COATING LINES WHICH USE A CLEAR COATING (LAQUOR ODOR FROM CLEAR-COATING PAINT).

COMPANY NOTIFIED OF VIOLATION.

REMARKS COMPANY IS AWARE OF PROBLEM AND ARE EVALUATING ENTIRE PROCESS WITH CONSULTANTS. EVALUATION SHOULD BE COMPLETED IN 3 WEEKS

RECOMMENDED ACTION A.O. & N.O.C.A.P.A

Reviewed By

Byron B Sullivan 6-8-89

Date

Date

Date

Scott F. Michenfelder  
Inspector's Signature

SCOTT F. MICHEFELDER  
Print Name

ENVIRONMENTAL SPEC. TRAINED  
Title

DOCUMENT P-2



ATTACHMENT Q



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL QUALITY  
CN 027, TRENTON, NJ 08625



Jorge H. Berkowitz, Ph.D.  
Director

Anthony J. McMahon, Assistant Director  
Environmental Enforcement

IN THE MATTER OF  
PEERLESS TUBE COMPANY  
58 LOCUST AVENUE  
BLOOMFIELD, NJ 07003  
LOG #A892047 MRA CDS

: ADMINISTRATIVE ORDER AND  
:  
: NOTICE OF CIVIL ADMINISTRATIVE  
:  
: PENALTY ASSESSMENT  
:

This ORDER and NOTICE are issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (the "Department") by N.J.S.A. 13:1D-1 et seq., and the Air Pollution Control Act, N.J.S.A. 26:2C-1 et seq. (the "Act"), and duly delegated to the Assistant Director for Enforcement of the Division of Environmental Quality pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. As the result of an investigation conducted on August 22, 1989, the Department has determined that at your facility located at 58 Locust Avenue, Town of Bloomfield, Lot(s) 60, Block(s) 129, County of Essex, State of New Jersey, (ID #05066), you did cause, suffer, allow or permit odors from spray coating operations to be emitted into the outdoor atmosphere in quantities which resulted in air pollution, in violation of N.J.A.C. 7:27-5.2(a).

ORDER

2. NOW, THEREFORE, IT IS HEREBY ORDERED THAT YOU IMMEDIATELY cease emitting, into the outdoor atmosphere substances in quantities which shall result in air pollution.

PENALTY

3. Based upon the above FINDINGS, and a review of the entire matter, the Department hereby assesses a Civil Administrative Penalty against you in the amount of \$ 6,000.00. Payment must be submitted to the Department within twenty (20) calendar days of receipt of this Order and Notice unless you request a hearing in accordance with the provisions of Paragraph 4 below. Payment must be made to the Department at the address listed in Paragraph E of Attachment I.

CD5  
A1

ISOLATION  
DATE AUG. 22, 1989 TIME AT SITE 12:25 1:30  
from p.m. to p.m. I.D. # 05066

Sec. A

PERSON IN VIOLATION

FULL BUSINESS NAME PEERLESS TUBE COMPANY

MAILING ADDRESS 58 LOCUST AVE. BLOOMFIELD N.J. 07003  
No. Street City Zip Code

TYPE OF OWNERSHIP: ☐ Individual ☐ Partnership ☒ Corporation ☐ Municipal \_\_\_\_\_  
Type

NAME OF OWNER, PARTNERS, OFFICERS, OFFICIALS WILLIAM REMINGTON

TITLE PRESIDENT

PERSONS INTERVIEWED KRIS HOFFMAN <sup>(INDUSTRIAL)</sup> <sub>(HYGIENIST)</sub> PHONE: (201) 743-5100

PERSON AUTHORIZED TO RECEIVE PROCESSES KRIS HOFFMAN  
Name

MAILING ADDRESS 58 LOCUST AVE. BLOOMFIELD N.J. 07003  
No. Street City Zip Code

REMARKS: \_\_\_\_\_

Sec. B

LOCATION OF VIOLATION

LOCATION ADDRESS 58 LOCUST AVE. BLOOMFIELD ESSEX  
No. Street Municipality County

Book Plate \_\_\_\_\_ Lot 60 Block 129

PREMISES OCCUPIED AS: ☒ Owner ☐ Lessee ☐ Tenant

OWNER PEERLESS TUBE COMPANY 58 LOCUST AVE. BLOOMFIELD  
Name Street City

NJ 07003

Sec. C

CODE REFERENCE: Chapter(s) 7:27 Section(s) 5:2 Paragraph(s) (c)

DETAILS During Complaint investigation, orders were  
verified on 86 Criminal the property of the complainant  
at 12:30pm on Aug. 22, 1989, intensity being #2  
on the scale. Weather conditions during investigation  
were as follows:  
Temperature: 86°F  
Wind direction: From WNW at 15MPH  
The orders were intermittent to the Service Unit

REMARKS ORDERS ON COMPLAINANT'S PROPERTY & COMPANY WERE  
SAME - PAINT KIND OF ORDER. ATTACHED IS STATEMENT OF COMPLAINT.

RECOMMENDED ACTION ORDER BAD  
8-2589

DETAILS OF VIOLATION

Reviewed By

Gloria de Sousa 8/24/89

Date \_\_\_\_\_

**Date**

**Inspector's Signature**

NETAL G. PATEL

Print Name \_\_\_\_\_

Print Name Eric Spector  
Title \_\_\_\_\_

**Title**

0-7

# ADDITIONAL VIOLATIONS

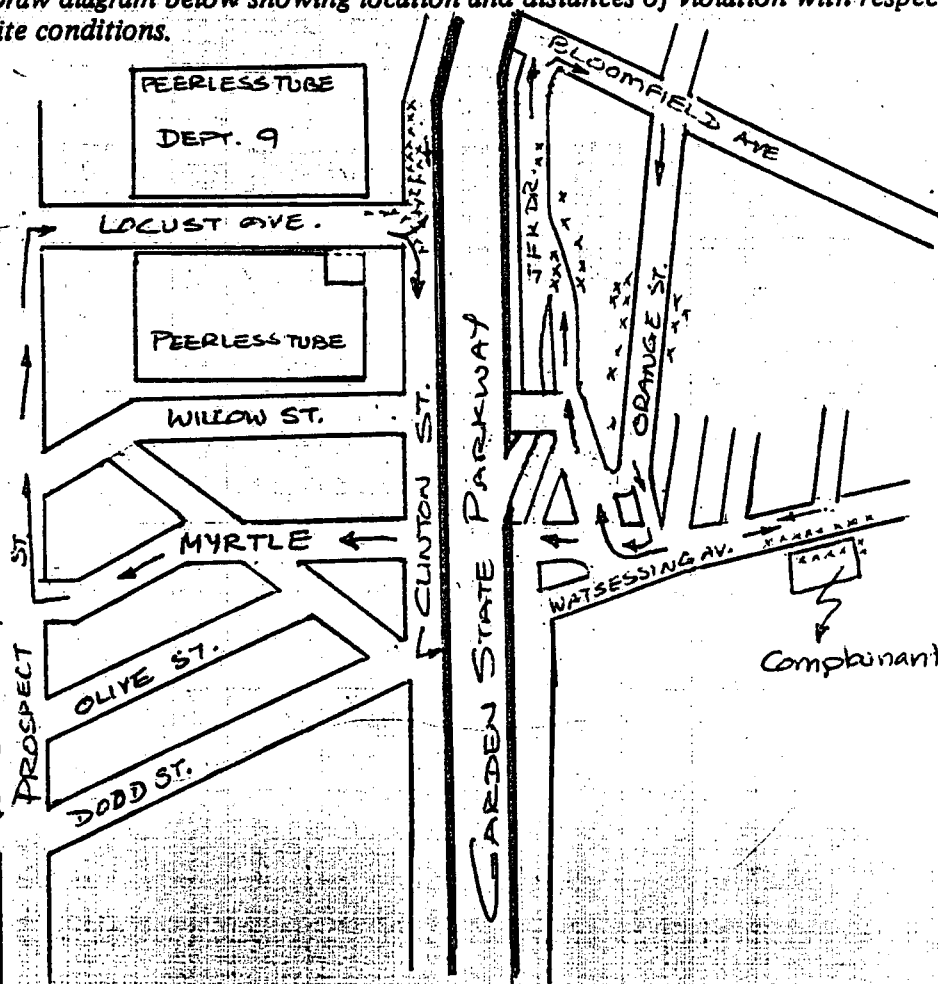
CODE REFERENCE: Chapter(s) \_\_\_\_\_ Section(s) \_\_\_\_\_ Paragraph(s) \_\_\_\_\_

DETAILS identified as Dept. 9 of the subject Company where aluminum cans are manufactured & painted. Odor emission points include, but are not limited to, stacks from top coat spray, interior coat spray & outside coat spray. During inspection of the Company during this investigation, grandfathered stacks of Lines #65 & 72 were found emitting the coating overspray (<10% opacity) on the roof.

REMARKS COMPANY IS AWARE OF THE PROBLEM & EVALUATING ENTIRE PROCESS WITH A CONSULTANT. KRISS HOFFMAN INFORMED OF VIOLATION

RECOMMENDED ACTION - ORDER -

Draw diagram below showing location and distances of violation with respect to street and/or landmarks or unusual site conditions.



X INDICATE ODORS DETECTED  
→ INDICATE ROUTE TAKEN DURING INVESTIGATION

ATTACHMENT Q-3

ATTACHMENT R

03/14/90  
11:54:38

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL QUALITY  
STACK LOG LISTING

LANT COUNTY MUNICIPALITY ID	BUSINESS NAME	PLANT NAME					
5062	ESS NEWARK	BELL CONTAINER CORP	BELL CONTAINER CORP				
	STACK 001	CERT 009861	COND	STATUS EXPD	EXP. DAT 06/04/89	COMPANY DESIGNATION PNEUMATIC SYSTEM	LAST INS 06/12/86 BY 080
5064	ESS FAIRFIELD	BEE CHEMICAL COMPANY	BEE COATED FILMS CO. SUB. DIV.				
	STACK 000	CERT	COND	STATUS ZERO	EXP. DAT	COMPANY DESIGNATION MISCELLANEOUS INSPECTIONS	LAST INS BY
	001			DELETE		CATALYTIC FURE INCIN.	11/04/83 022
	002			DELETE		FILM COATER/INCINERATOR	11/04/83 022
	003	060283		DELETE	02/26/84	003	11/04/83 022
	004	072160		PERM	05/06/93	MIXING & PDT WASHING	01/15/88 621
5066	ESS BLOOMFIELD	PEERLESS TUBE CO	IANUZZI, ALAN				
	STACK 000	CERT	COND	STATUS ZERO	EXP. DAT	COMPANY DESIGNATION MISCELLANEOUS INSPECTIONS	LAST INS BY
	001			DELETE		NO.1ALUMINUM FURNACE	02/24/84 013
	002			DELETE		NO.2ALUMINUM FURNACE	02/24/84 013
	003	007922		DELETE	01/18/93	LINE #10 COATING OVENS	05/21/87 080
	004	069383		DELETE	10/31/88	004	05/21/87 080
	005	080640	X	TEMP	05/12/90	INSIDE COATING (OVERSPRAY)	06/28/89 031
	006	079668	X	TEMP	05/07/90	COATING LINES & OVENS	06/28/89 031
	007	072479		PERM	09/18/94	UNIT #10A	06/28/89 031
	008	079669		TEMP	05/12/90	COATING LINES & OVENS	06/28/89 031
	009	072480	X	PERM	09/18/94	UNIT #9A	06/28/89 031
	010	079670		PERM	11/13/94	COATING LINES & OVENS	06/28/89 031
	011	079671		PERM	11/13/94	COATING LINES & OVENS	06/28/89 031
	012	072481		PERM	09/18/94	UNIT #8A	06/28/89 031
	013	033553		PERM	12/11/93	UNIT 1A	05/21/87 080
	014	033554		PERM	12/11/93	UNIT 2A	05/21/87 080
	015	033555		PERM	12/11/93	UNIT 3A	05/21/87 080
	016	033560		PERM	12/11/93	UNIT 4A	05/21/87 080
	017	033561		PERM	12/11/93	UNIT 5A	05/21/87 080
	018	033562		PERM	12/11/93	UNIT 6A	05/21/87 080
	019	033563		PERM	12/11/93	UNIT 7A	05/21/87 080
	020	044848		DELETE	01/25/90	BOILER-KEWANEE 250	05/21/87 080

\*\*\* DENOTES UNDEFINED STATUS



VENINSL-1 03/14/90  
11:54:38

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL QUALITY  
STACK LOG LISTING

### PLANT CONTACT

PLANT ID COUNTY MUNICIPALITY

**BUSINESS NAME**

**PLANT NAME**

IANUZZI, ALAN.

05066\_\_ESS BLOOMFIELD

PEERLESS TUBE CO

DESIGNATION

LAST INS	BY
06/28/89	031
06/28/89	031
06/28/89	031

STACK	CERT	COND	STATUS
021	070602		PERM
022	068724		PERM
023	072161		TEMP
024	091031		PERM
025	091723		PERM
026	093335		TEMP

EXP. DAT  
10/06/94  
09/12/94  
06/15/90  
09/01/94  
05/15/94  
05/01/90

COMPANY DESIGNATION  
021  
0024  
0025 -UNIT #11A  
BOILER #1  
BOILER #4  
LINE 74 PRESS EXHAUST

**BENJAMIN MOORE & CO**

**LAWRENCE BERG**

05067 ESS NEWARK

**BENJAMIN MOORE & CO., INC.**

### DESIGNATION

**LAST INS BY**

STACK	CERT	COND	STATUS
000			ZERO
001			GRAN
002	081054	X	TEMP
003	081800	X	TEMP
004			GRAN
005			GRAN
006	062785		PERM
007	085736	X	TEMP
008			GRAN
009			GRAN
010	002365		PERM
011			GRAN
012			GRAN
013	002366		PERM
014	065222		EXPD
015			DELET
016			DELET
017			DELET
018			GRAN
019			GRAN
020	019462		PERM
021			GRAN
022			DELET
023			DELET
024			GRAN
025			DELET
026			GRAN
027			GRAN
028			GRAN
029			GRAN
030			GRAN

EXP. DAT  
06/15/90  
05/06/90

COMPANY DESIGNATION  
MISCELLANEOUS INSPECTIONS  
EAST BAGHOUSE, PAINT HPG.  
002 - WEST  
#003  
BLDG #1, 2ND FLOOR-GENERAL VENT  
SPRAY CAN FILLING AREA  
3 CLEAVER-BROOKS BOILERS  
#007  
WEST VENT STKS 2ND FL  
STORAGE SILO  
STORAGE SILO  
STORAGE SILO  
STORAGE SILO  
STORAGE SILO  
BOILER  
THERMAL INCINERATOR STK  
COOKER HEATER EXHAUST  
COOKER HEATER EXHAUST  
THERMINOL HEATER EXHAUST  
THERMINOL HEATER EXHAUST  
BLDG #11  
1000 GAL REACTOR FOR LATEX MF  
FUME SCRUBBER STACK  
PORTABLE TK CONDENSER EX  
BLDG BOILER STACK  
4000 GALLON #2 DIESEL STORAGE  
BLD #4  
BLDG 4A TANK #10  
TANK 11 BLDG 4A  
TANK #25 BLDG 4  
BLDG 4

06/28/88	080
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06/28/88	080

8/20/90 - 11 - 019 019462

09/15/90

[illegible]

\*\*\*\* DENOTES UNDEFINED STATUS

ATTACHMENT P-2

ATTACHMENT S

State of New Jersey  
Department of Environmental Protection  
Division of Water Resources  
1474 Prospect Street, CN-029  
Trenton, New Jersey 08625

FACT SHEET  
FOR DRAFT NJPDES PERMIT TO DISCHARGE  
INTO THE WATERS OF THE STATE OF NEW JERSEY

Permit No. NJ0029335

Date:

Name and Address of Applicant: Peerless Tube Company  
58 Locust Avenue  
Bloomfield, NJ 07003

Name and Address of Facility  
where Discharge Occurs: Same as above  
Same as above

Receiving Water: Lloyd's Brook

Classification: FW-2, NT

I. DESCRIPTION OF FACILITY

The above named applicant has applied for a New Jersey Pollutant Discharge Elimination System (NJPDES) permit, to the State of New Jersey Department of Environmental Protection, Division of Water Resources to discharge into the designated receiving water. A location map of the facility is included on page 3.

The applicant is engaged in the manufacture of aluminum tubes (SIC 3499) and aluminum aerosol collapsible containers (SIC 3499). Currently there are three outfalls (DSN 001 thru 003) into Lloyd's Brooks from this facility. DSN 001 consists of cooling water in temporary emergency use conditions only and stormwater; DSN 002 consists of non-contact cooling water of air compressors (35,000 gpd); DSN 003 consists of non-contact cooling water of process equipments and stormwater runoff (30,000 gpd).

PERMIT NUMBER NJ0029327

Permittee

PEERLESS TUBE CO INC  
58 - 76 LOCUST AVENUE  
BLOOMFIELD, NJ 07003

Co-Permittee

Property Owner  
PEERLESS TUBE COMPANY  
58-76 LOCUST AVENUE  
BLOOMFIELD, NJ 07003

Location of Activity  
PEERLESS TUBE CO INC  
71 LOCUST AVENUE  
BLOOMFIELD, NJ 07003


Type of Permit Covered By This Approval	Issuance Date	Effective Date	Expiration Date
CG:General Permit N/C Cooling Wtr	6/15/88	8/01/88	9/30/90

DISCHARGED TO: Wigwam Brook

CLASSIFICATION: FW2-NT

The permittee is authorized to discharge through outfall(s) 001 as identified in the Administrative Record for this permit.

By Authority of:  
George G. McCann, P.E.  
Director  
Division of Water Resources

  
DEP AUTHORIZATION  
Leroy T. Cattaneo, P.E.  
Acting Assistant Director  
Wastewater Facilities Management Element

(Terms, conditions and provisions attached hereto)

State of New Jersey Department of Environmental Protection, Division of Water

ATTACHMENT S-2



STATE OF NEW JERSEY  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CN 402  
Trenton, N.J. 08625

## PERMIT



The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to the further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit.

Permit No.	Issuance Date	Effective Date	Expiration Date
Per Notice of Authorization	August 30, 1985	October 1, 1985	September 30, 1990
Name and Address of Applicant	Location of Activity/Facility	Name and Address of Owner	
Per Notice of Authorization	Per Notice of Authorization	Per Notice of Authorization	
Issuing Division	Type of Permit	Statute(s)	Application No.
Water Resources	NJPDES/DSW General Permit for Non-Contact Cooling Water Discharge of up to	N.J.S.A. 58-10A-1 et seq.	Per Notice of Authorization
This permit grants permission to:		0.10 MGD	


Discharge non-contact cooling water to State surface waters, excluding those classified as FWI or located within the Pinelands Area, in accordance with effluent limitations, monitoring requirements, and other conditions as set forth in Parts I, II, III, and IV hereof.

Approved by the Department of Environmental Protection

By the Authority of:  
John W. Gaston Jr., P.E.  
Director

Division of Water Resources

The word permit means "approval, certification, registration, etc."

  
Arnold Schiffman, Administrator  
Water Quality Management

8/30/85  
DATE

(GENERAL CONDITIONS ARE ON THE REVERSE SIDE.)

ATTACHMENT S-3



STATE OF NEW JERSEY  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CN 402  
Trenton, N. J. 08625  
PERMIT •




The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to the further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit.

Permit No. 0029327	Issuance Date 3-3-83	Effective Date 5-1-83	Expiration Date 4-30-88
Name and Address of Applicant Peerless Tube Company 58-76 Locust Avenue Bloomfield, New Jersey 07003	Location of Activity/Facility 58-76 Locust Avenue Bloomfield Town Essex County, New Jersey	Name and Address of Owner Peerless Tube Company 58-76 Locust Avenue Bloomfield, New Jersey 07003	
Issuing Division <input checked="" type="checkbox"/> Water Resources <input type="checkbox"/> Coastal Resources <input type="checkbox"/> Environmental Quality <input type="checkbox"/> Other	Type of Permit NJPDES-DSW	Statute(s) N.J.S.A. 58:10A-1 <u>et seq.</u>	Application No. NJ0029327

This permit grants permission to:

discharge to Wigwam Brook a tributary of the Passaic River, classified as FW-2 nontrout waters, in accordance with the effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, III and IV hereof.

Approved by the Department of Environmental Protection

  
Arnold Schiffman, Administrator  
Water Quality Management Element

3/3/83  
DATE

The word permit means "approval, certification, registration, etc."

DEP-007

(GENERAL CONDITIONS ARE ON THE REVERSE SIDE)

ATTACHMENT 54

**ATTACHMENT T**



ROBERT J. DAVENPORT  
CHAIRMAN

CHARLES A. LAGOS  
VICE CHAIRMAN

THOMAS J. CIFELLI  
VINCENT CORRADO, SR.  
RICHARD M. GIACOMARRO, SR.  
KENNETH W. HAYDEN  
DONALD TUCKER  
COMMISSIONERS

Passaic Valley  
Sewerage Commissioners

600 WILSON AVENUE  
NEWARK, N. J. 07105  
(201) 344-1800

CARMINE T. PERRAPATO  
EXECUTIVE DIRECTOR

JAMES M. PIRO  
CHIEF COUNSEL

NORMAN E. DARMSTATTER  
CLERK

December 15, 1986

Peerless Tube Co., Inc.  
58-76 Locust Avenue  
Bloomfield, New Jersey 07003

Attn: Alan J. Ianuzzi

**CERTIFIED MAIL**  
RETURN RECEIPT REQUESTED


RE: SEWER CONNECTION PERMIT

Dear Mr. Ianuzzi:

Enclosed you will find your Sewer Connection Permit for discharge into the Passaic Valley Sewerage Commissioners system.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

  
Frank P. D'Ascensio,  
Superintendent of Industrial Waste Control

FPD/mc

Enclosures

cc: Town of Bloomfield

**RECEIVED**  
DEC 16 1986  
PEERLESS TUBE CO.

ATTACHMENT T-1

## PASSAIC VALLEY SEWERAGE COMMISSIONERS

## SEWER CONNECTION PERMIT

PERMIT # 02401964

(Please use the Permit Number on any correspondence with PVSC)  
In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and the Rules and Regulations of the Passaic Valley Sewerage Commissioners:

Peerless Tube Co., Inc.

(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

58-76 Locust Avenue

Bloomfield, New Jersey 07003

to the Passaic Valley Sewerage Commissioners Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

Effective Date 12/10/86

Expiration Date 12/10/91

PASSAIC VALLEY SEWERAGE COMMISSIONERS

By: 

Executive Director

ATTACHMENT I-2

**PASSAIC VALLEY SEWERAGE COMMISSIONERS****SEWER CONNECTION PERMIT**PERMIT # 02401964

(Please use the Permit Number on any correspondence with PVSC)  
In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and the Rules and Regulations of the Passaic Valley Sewerage Commissioners:

Peerless Tube Co., Inc.(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

58-76 Locust AvenueBloomfield, New Jersey 07003

to the Passaic Valley Sewerage Commissioners Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

Effective Date 12/10/86Expiration Date 12/10/91**PASSAIC VALLEY SEWERAGE COMMISSIONERS**By: Executive DirectorATTACHMENT I-2

PASSAIC VALLEY SEWERAGE COMMISSIONERS

SEWER CONNECTION PERMIT

PERMIT # 02401964

(Please use the Permit Number on any correspondence with PVSC)  
In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and the Rules and Regulations of the Passaic Valley Sewerage Commissioners:

Peerless Tube Co., Inc.

(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

58-76 Locust Avenue

Bloomfield, New Jersey 07003

to the Passaic Valley Sewerage Commissioners Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

Effective Date 12/10/86

Expiration Date 12/10/91

PASSAIC VALLEY SEWERAGE COMMISSIONERS

by

Executive Director

ATTACHMENT. 1-3

ATTACHMENT U

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER RESOURCES  
TRENTON, N.J.

Mail to  
Water Allocation  
CN 029  
Trenton, N.J. 08625

Permit No.

46-21052-1  
26-21052-5  
26-21053-3

PERMIT TO DRILL WELL

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 26.12 533

Owner PEERLESS TUBE

Driller ADVANCED ENVIRONMENTAL BORING

Address 58 LOCUST AVE.

Address P.O. Box 582

Bloomfield NJ. 07003

EAST HANOVER NJ 07936

Name of Facility \_\_\_\_\_

Address SAME AS ABOVE

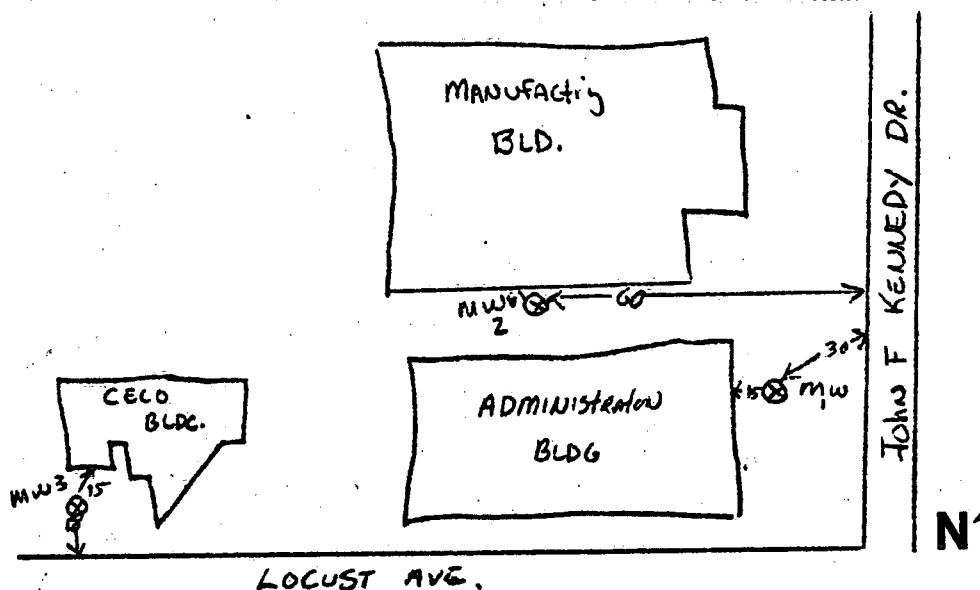
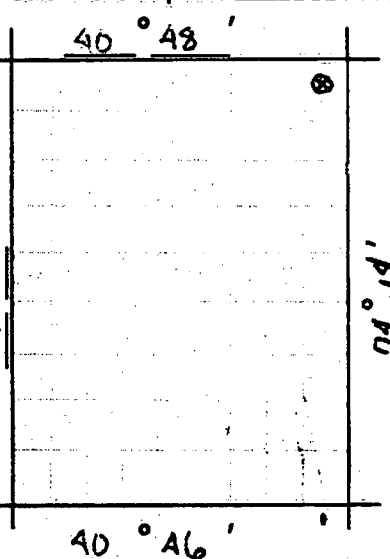
Diameter of Well(s)	4	Inches	Proposed Depth of Well(s)	20	Feet
# of Wells Applied for (max. 10)	3		Will pumping equipment be installed? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
Type of Well (see reverse)	Monitoring			If yes, give pump capacity	-7 GPM

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
60 10 70	129 152 129	Bloomfield	ESSEX

Draw sketch of well(s) to nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.

State Atlas Map No. 26



- ☐ Issuance of this permit is subject to the conditions attached. (see next page)
- ☐ For monitoring purposes only
- ☐ Only pure bentonite drilling muds are to be used for installation

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED

- ☐ Spill Fund Case
- ☐ ECRA Case
- ☐ CERCLA (Superfund) Site
- ☐ RCRA Site
- ☒ Underground Storage Tank
- ☐ NJPDES Municipal Discharge Permit
- ☐ NJPDES Industrial Discharge Permit
- ☐ Div. Hazardous Waste Mgmt. Enforcement Case
- ☐ Div. Water Resources Enforcement Case
- ☐ Aquifer Test Observation Well
- ☐ Other (explain) \_\_\_\_\_

Case I.D. Number:

Not Assigned yet.

This Space for Approval Stamp

APPROVED BY  
DATE

JUL 06 1990

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT.

ATTACHMENT U

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 6/27/90

Signature of Driller

Signature of Owner

51358

COPIES:

Water Allocation - White and Pink

Health Dept. - Yellow

Owner - Blue

Driller - White

ATTACHMENT V



**Scope of Work  
for  
Closure of Underground  
Storage Tanks**

**Prepared for:**

**Peerless Tube Company  
58 Locust Avenue  
Bloomfield, New Jersey 07003**

**Prepared by:**

**Metcalf & Eddy, Inc.  
P.O. Box 1500  
Somerville, New Jersey 08876**

**March 1990**

## 1.0 INTRODUCTION

In November 1989, four (4) underground storage tanks located at the Peerless Tube, Bloomfield facility were addressed by ENSI, Inc. Two (2) of these tanks were removed and two (2) tanks were closed in-place. Samples collected by ENSI in conjunction with the closure were analyzed by Nytest Environmental, Inc. With the exception of some of the samples collected around Tank B, all analytical results were below NJDEP action levels.

Metcalf & Eddy (M&E) has been contracted by Peerless Tube to provide services to insure proper closure requirements are met for these tanks. The scope of work contained within this report is based on a review of the procedures taken by ENSI during the closure and conversation with Mr. David Reubans of NJDEP, Bureau of Underground Storage Tanks regarding the conditions at the site.

## TABLE OF CONTENTS

<u>SECTIONS</u>	<u>Page</u>
Section 1.0 Introduction.....	1
Section 2.0 Review of ENSI Activities.....	2
2.1 Tank A	
2.2 Tank B	
2.3 Tank C	
2.4 Tank D	
Section 3.0 Scope of Work.....	5
3.1 Tanks A, C, D	
3.2 Tank B	
Section 4.0 Waste Classification.....	8

### TABLE

Table 1	Summary of Analytical Results
---------	-------------------------------

### FIGURE

Figure 1	Underground Storage Tank Locations
----------	------------------------------------

### APPENDICES

Appendix 1	Underground Storage Tank Registrations
Appendix 2	ENSI, Inc., Analytical Results

## 2.0 REVIEW OF ENSI ACTIVITIES

Four (4) underground storage tanks were addressed by ENSI from November 6 through 16, 1989. A sketch of the facility illustrating the locations of these tanks is included as Figure 1. All four (4) tanks have been registered, by Peerless Tube, with NJDEP. A copy of the registration is attached as Appendix 1. The activities taken at each of these tanks are described below. Copies of the analytical results collected by ENSI are included in Appendix 2.

### 2.1 Tank A

Tank A is located approximately 60 feet west of John F. Kennedy Drive. According to the tank registration form, this tank has a capacity of 20,000-gallons and contained #4 fuel oil. The tank is of steel construction and is 11 years old.

Due to the proximity of the tank to the building on one side and a 6-inch steel high pressure gas main on the other side of the tank, the decision was made to abandon this tank in-place. The tank was vacuumed, cleaned and filled with bank-run sand material. A copy of the certification of this material is enclosed as Appendix 3.

ENSI collected a total of four (4) samples from around this tank at a depth of five feet below grade level. Copies of the sampling location sheets provided are attached in Appendix 4. All samples were analyzed for total petroleum hydrocarbons. The sample results are outlined in Table 1. All results are below NJDEP action levels for total petroleum hydrocarbons. Only one (1) sample collected contained a low concentration of total petroleum hydrocarbons, all other samples were non-detectable.

Based on our review of ENSI sampling procedures and observations made by Peerless Tube personnel at the time, regarding the absence of visual contamination, M&E believes this singular low level hit is the result of the introduction of contaminated surface soils or asphalt to the sample collection point.

## 2.2 Tank B

Tank B is located approximately 110 feet west of John F. Kennedy Drive and adjacent to Tank A. According to the tank registration form, this tank has a capacity of 10,200-gallons and last contained trichloroethene. According to Peerless Tube personnel, this tank contained fuel oil until 1984, when it was emptied, cleaned and changed service to the storage of trichloroethene. This tank is of steel construction and is 19 years old.

As was the case with Tank A, the decision was made to close this tank in-place. The tank was vacuumed, cleaned and filled with the bank-run described previously.

ENSI collected a total of four (4) samples from around this tank at a depth of five feet below grade. Copies of the sampling location sheet provided are attached in Appendix 4. Samples at each location were analyzed for total petroleum hydrocarbons and volatile organics plus a forward library search. The sample results are outlined in Table 1.

## 2.3 Tank C

Tank C is located on the opposite side of Locust Avenue from Tanks A and B, approximately 100 feet west of John F. Kennedy Drive. According to the tank registration form, this tank has a capacity of 10,800-gallons and contained #4 fuel oil. This tank is of steel construction and is of unknown age.

Due to its location, this tank was able to be excavated and removed. Prior to removal, the tank was vacuumed and cleaned. After the tank was excavated, it was cut up and taken to Naporano Iron and Metal Company of Newark, New Jersey. Samples were collected as noted on the sketches included in Appendix 4. All samples were analyzed for total petroleum hydrocarbons and the results are outlined in Table 1. No detectable levels were found.

## 2.4 Tank D

Tank D is located on the northwest portion of the facility behind the former CECO building. This 1,500-gallon tank is of unknown age and contained #4 fuel oil to service the CECO building. The tank was of steel construction.

The tank was removed under the same conditions as Tank C. As was the case with Tank C, the excavation was backfilled with certified bank-run described previously.

Samples were collected as noted on the sketches in Appendix 4. All samples were analyzed for total petroleum hydrocarbons and the results are outlined in Table 1. All results were below NJDEP action levels for total petroleum hydrocarbons. Only one (1) sample contained a low level hit of total petroleum hydrocarbons.

Based on our review of ENSI sampling procedures and observation made by Peerless Tube that the tank was intact, with no stained soil observed, M&E believes that this singular low level hit is the result of the introduction of contaminated surface soils or asphalt to the sample collection point.

### 3.0 SCOPE OF WORK

This section outlines the procedures M&E proposes for the proper closure of these four (4) underground storage tanks.

#### 3.1 Tanks A, C, D

As samples collected by ENSI have indicated that these tanks had not caused a release to the environment, the following action is proposed for proper closure of the tanks. Based on a review of ENSI sampling techniques, M&E believes that the low level hits of total petroleum hydrocarbons are due to the introduction of contaminated surface soils or asphalt to the sampling location, as samples were collected by ENSI personnel climbing into the open excavation.

- o The facility owner/operator shall submit an affidavit or notarized statement by a qualified witness that the tank was cleaned thoroughly, that the wash water and product was disposed of legally and that the tanks were filled, using state-of-the-art methods and removed in accordance with all applicable regulations.
- o Preparation and submission to NJDEP of a Site Assessment and Compliance Statement for each of the tanks.
- o Deregistration of the tanks with NJDEP.

#### 3.2 Tank B

Based on the review of ENSI sampling procedures and results and conversations with Peerless Tube personnel, M&E believes that sampling procedures and sampling depths associated with this tank may have been faulty, resulting in concentrations of petroleum hydrocarbons which may not be truly indicative of conditions at the tank's invert. Again, it is believed that low levels of petroleum hydrocarbons found are due to the introduction of contaminated surface soils or asphalt.



Concentrations of Trichloroethene (TCE) found are believed to be associated with a deteriorated rubber gasket observed during tank closure. It is likely that this deterioration occurred as a result of a reaction between the gasket and the TCE. Peerless Tube engineers estimate the total release of material to be less than (10) gallons.

Based on conversations with Mr. David Reubans of NJDEP Bureau of Underground Storage Tanks, M&E proposes to install one (1) monitoring well in the water table aquifer to assess any impacts on the groundwater as a result of this tank. The location of this well will be within ten (10) feet of the tank and will be biased to the predicted downgradient location. The proposed location of this well is indicated on Figure 1.

M&E will provide a qualified hydrogeologist for oversight of the installation, construction and development of the monitoring well. The hydrogeologist will provide written logs for the soil boring and construction of the well, as well as classifying soils and rock. The monitoring well design will follow the Department's monitoring well specifications and well driller using a truck mounted Mobile Drill D-80 drill rig. All necessary permits will be obtained prior to well installation.

The boreholes for the monitoring well will be advanced using 6.25-inch inner diameter hollow stem augers yielding an eight inch diameter borehole. A center plug will be inserted during drilling to prevent materials from entering the inside of the auger. No water or other fluids will be used during drilling operations. The drill rig and all equipment which comes in contact with the soil during drilling will be thoroughly steam cleaned before beginning the boring.

The borehole will be advanced to bedrock refusal or five (5) feet below the water table, whichever occurs first. Representative soil samples will be collected for characterization at five foot intervals or stratigraphic changes in the soil. Soil samples collected will be characterized by M&E and boring logs will be submitted to NJDEP on the form included in Appendix 3.

The monitoring well will be constructed in the borehole using a fifteen (15) foot section of 20 slot, four (4) inch inner diameter schedule 40 PVC well screening, connected by threaded flush joint couplings to PVC riser casing extending two (2) feet above the ground surface. The well screen will be installed ten (10) feet below and five (5) feet above to water table measured at the time of

drilling. The annular space between the borehole and the well screen will be tremie backfilled with a clean washed, medium to coarse sand packing (Morie Type #1 or equivalent) to a height of two (2) feet above the top of the well screen. A twenty four (24) inch granular bentonite seal will be installed by tremie backfill above the well screen granular packing around the riser pipe. The annular space will then be tremie grouted around the riser pipe with a neat bentonite cement grout (3% to 5% bentonite by weight) to within 24 to 30-inches of the surface. Finally, a five foot long security housing will be installed around the top of the monitoring well riser pipe. It will be constructed from a five (5) foot section of six (6) inch inner diameter 1/4-inch thick steel pipe equipped with a locking cap. The security housing will be placed on top of the borehole grout and backfilled with concrete formed into a raised 18-inch square pad slightly mounded to divert run-off away from the well. The aboveground casing will prominently display the well permit number.

Completion of the well will include development by the driller until a clean water discharge is encountered. The well will be allowed to develop for a period of two (2) weeks prior to sampling. The sample collected from this well together with a field blank and a trip blank will be analyzed at a New Jersey certified laboratory for trichloroethene. The results of this analysis will be included in the Discharge Investigation and Corrective Action report which will address Tank B.

#### 4.0 WASTE CLASSIFICATION

Overburden generated (approximately 20 cubic yards) during the uncovering of the tanks on-site was stockpiled on plastic, at the corner of the curbed, asphalt covered parking lot, as indicated on Figure 2.

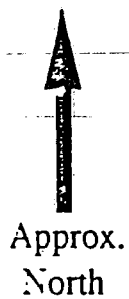
On February 2, 1989, M&E collected a composite sample of this stockpiled soil for the purpose of waste classification. In preparing the composite, representative samples were collected from five (5) separate locations approximately six inches below the surface of the pile. These grab samples were collected using a dedicated decontaminated stainless steel trowel. The composite of the five (5) separate areas were mixed together thoroughly in a decontaminated stainless steel mixing bowl and then divided in half, with one half directly placed into the sample bottles provided by the laboratory. The samples were delivered to Accutest Laboratories in Dayton, New Jersey, for ID 27 Waste Classification parameters.

As per a conversation with Mr. Joe Eaker of NJDEP Bureau of Underground Storage Tank on February 1, 1990, if the analysis indicates that concentrations are below the Hazardous Site Science Element Interim NJDEP Soil Action levels, the soil will be used as fill material (overburden) for the tanks which were closed in-place. If the analysis indicates the material to be hazardous, the material will be disposed of at an approved disposal facility.

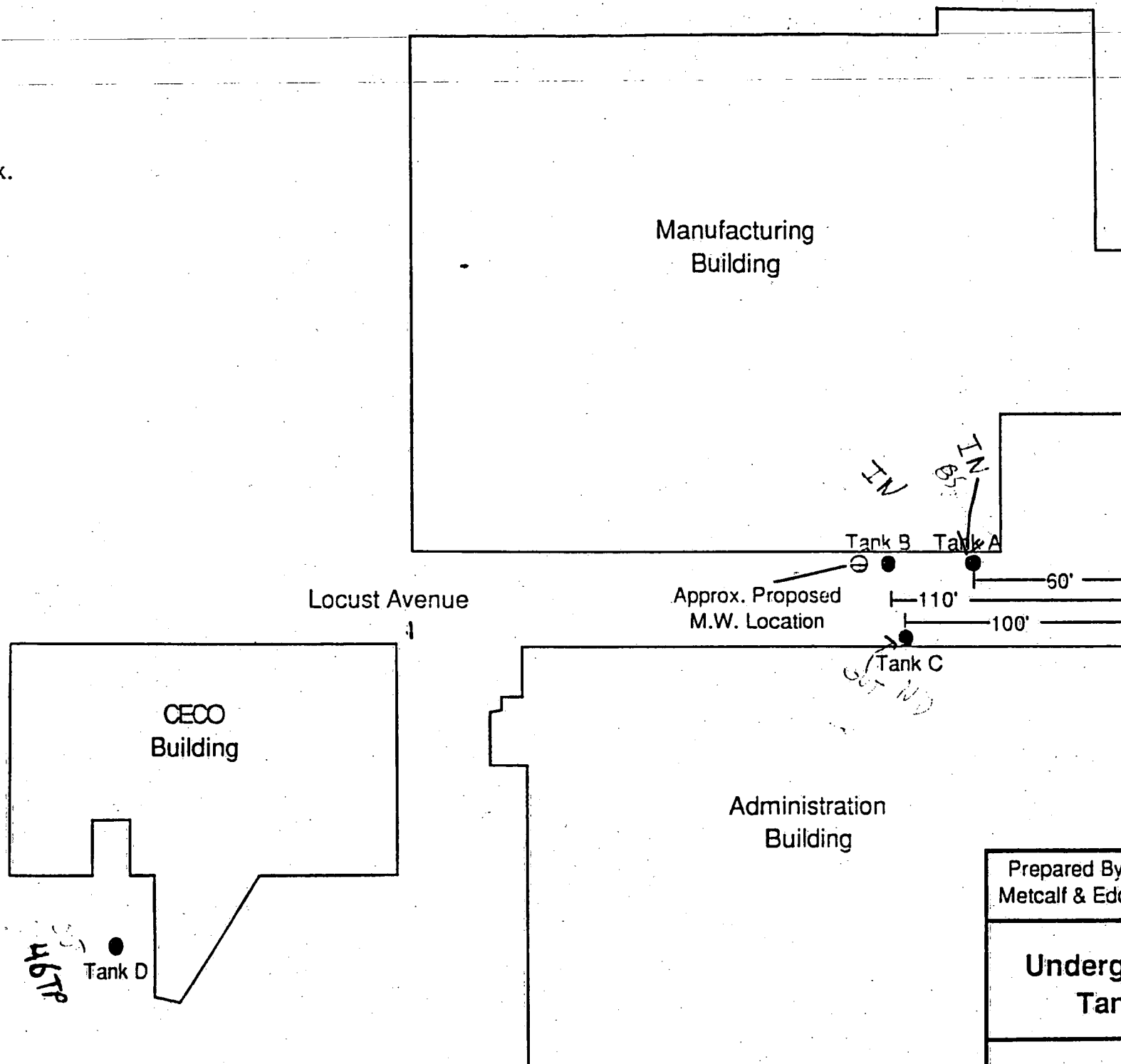
**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS**  
**ENSI, INC. SAMPLES FOR UST CLOSURE**  
**PEERLESS TUBE COMPANY BLOOMFIELD, NJ**

SAMPLE DESIGNATION	COMPOUND	CONCENTRATION (ppm)
AT-1	TPHC *	84.9
AT-2	TPHC	<10
AT-3	TPHC	<10
AT-4	TPHC	<10
BT-1	TPHC	699
BV-1	TCE **	0.260
BT-2	TPHC	<10
BV-2	TCE	0.008
BT-3	TPHC	659
BV-3	TCE	0.150
BT-4	TPHC	66.7
BV-4	TCE	<0.001
CT-1	TPHC	<10
CT-2	TPHC	<10
CT-3	TPHC	<10
CT-4	TPHC	<10
CT-5	TPHC	<10
DT-1	TPHC	<10
DT-2	TPHC	<10
DT-3	TPHC	<10
DT-4	TPHC	<10
DT-5	TPHC	46.3

- \* Total Petroleum Hydrocarbons
- \*\* Trichloroethene, as part of a VO + 15 scan

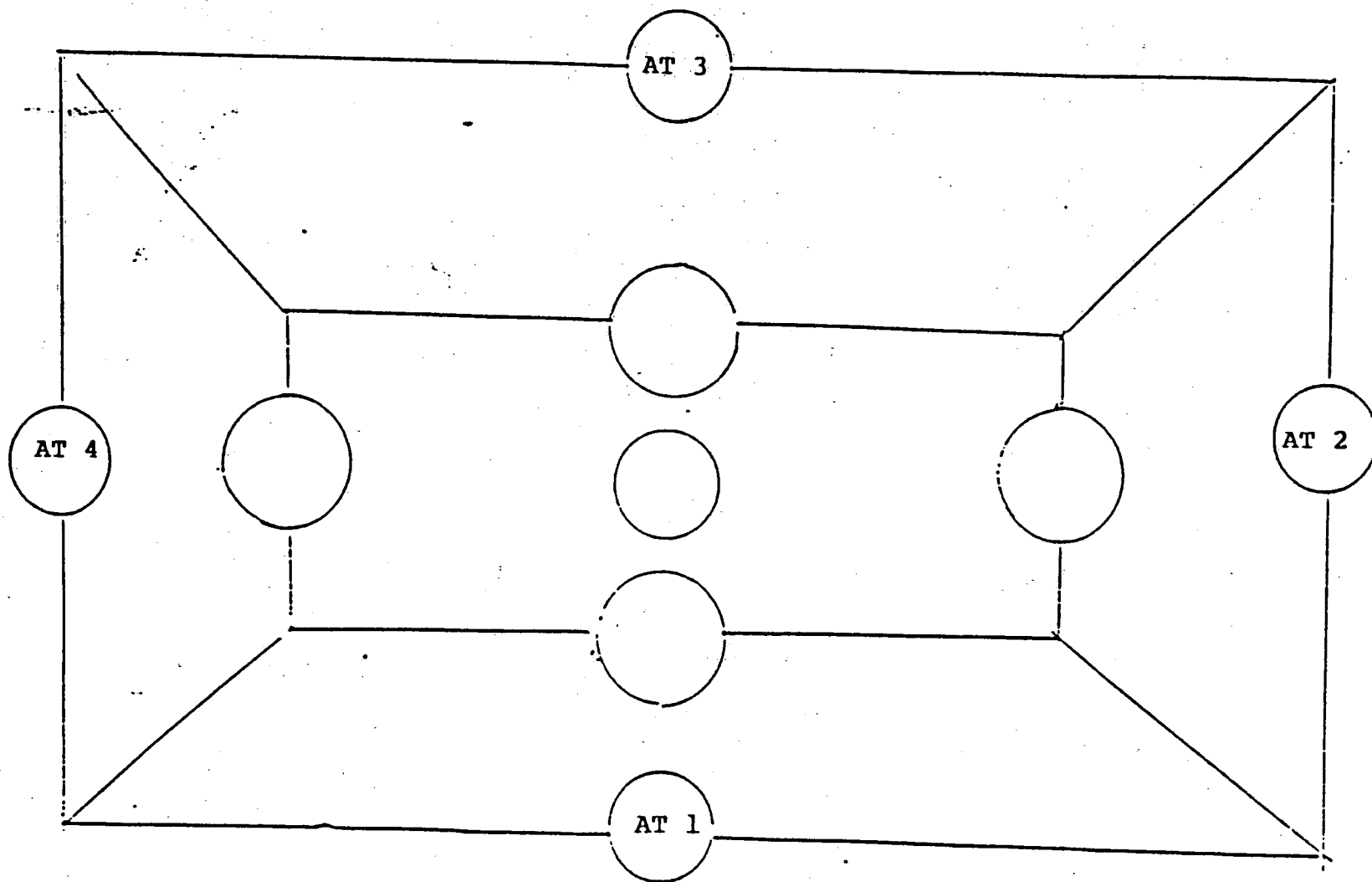


John F. Kennedy Drive



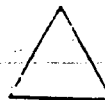
Prepared By: Metcalf & Eddy	Peerless Tube Bloomfield, NJ
<b>Underground Storage Tank Location</b>	
February 1990	Figure 1

**APPENDIX 2**  
**ENSI, Inc., Analytical Results**



Site A 20,000 gallon Fuel Oil Tank  
Samples AT-1 through AT-4 are  
TPHC

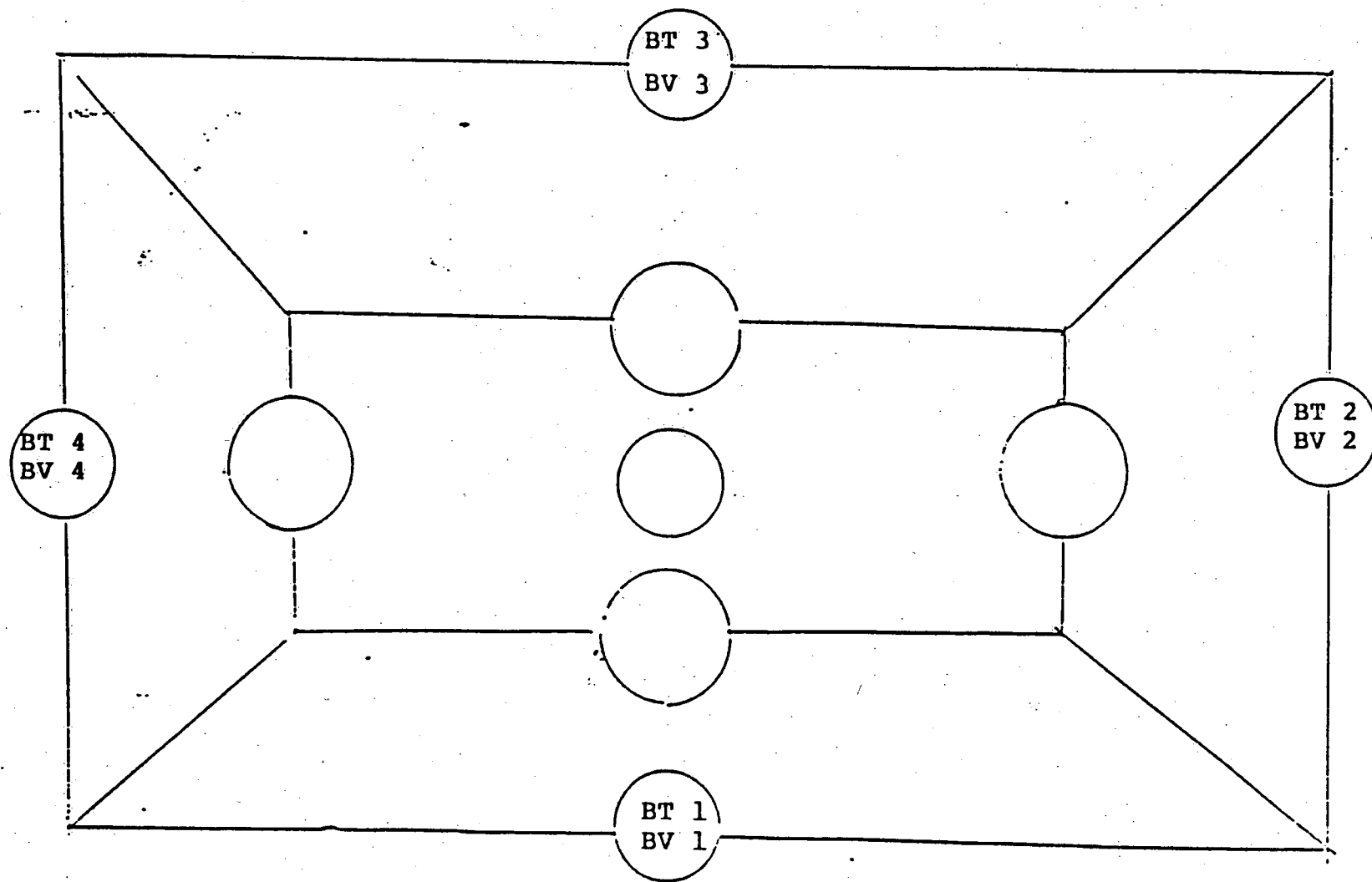
Note: 20,000 Fuel Oil  
Tank was filled in  
Place. Samples were  
collected 5 feet from  
grade level.



Facing Excavation

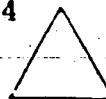
ATTACHMENT V-15



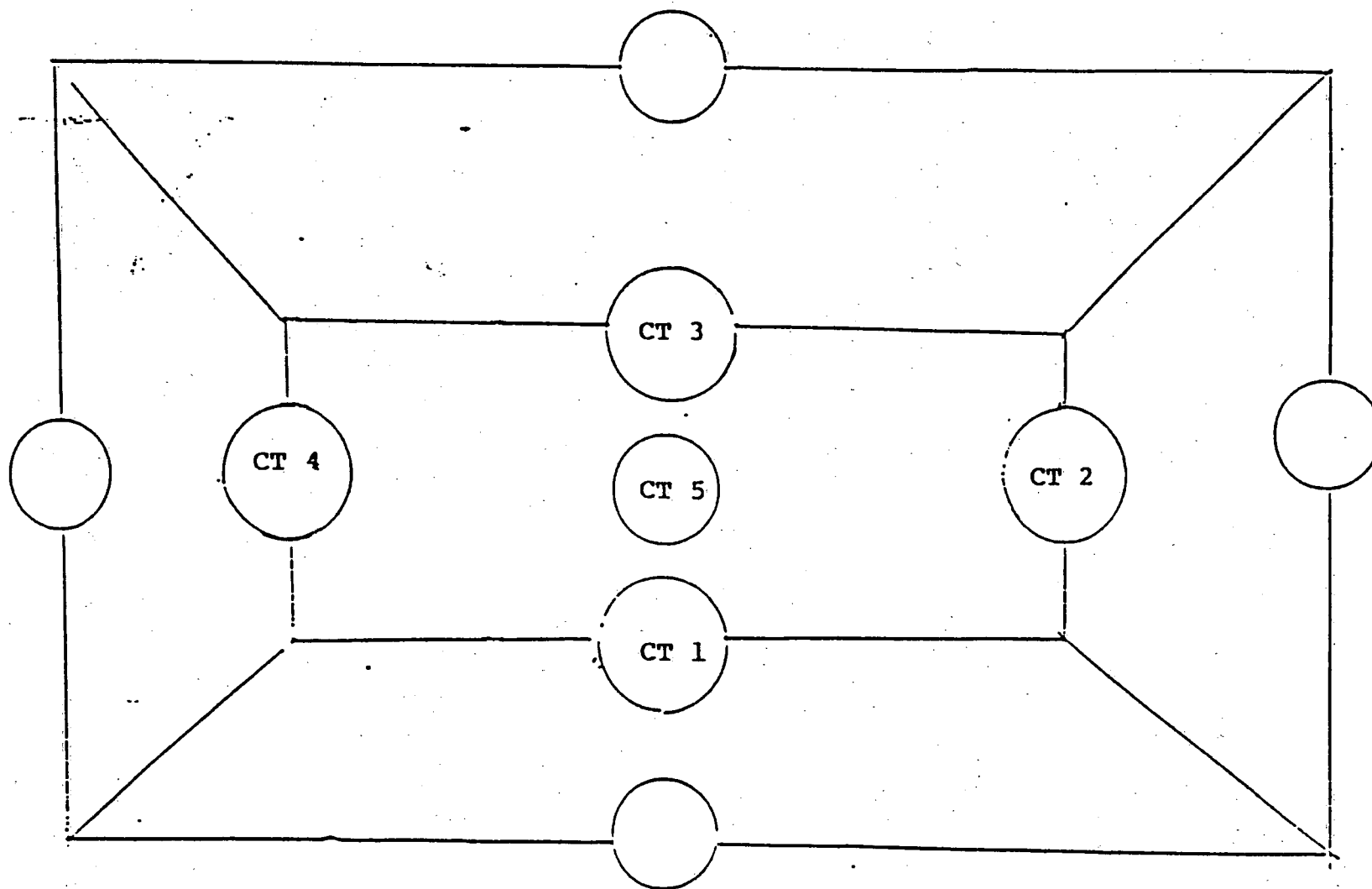


Site B 10,000 gallon TRI Tank  
 BT-1 through BT-4 are TPEC  
 BCS are a composite of BT-1 through BT-4  
 BV-1 through BV-4 are VO+15 analysis

Note: TRI, Tank was filled  
 in place. Samples  
 were collected 5 ft  
 from grade level.



Facing Excavation

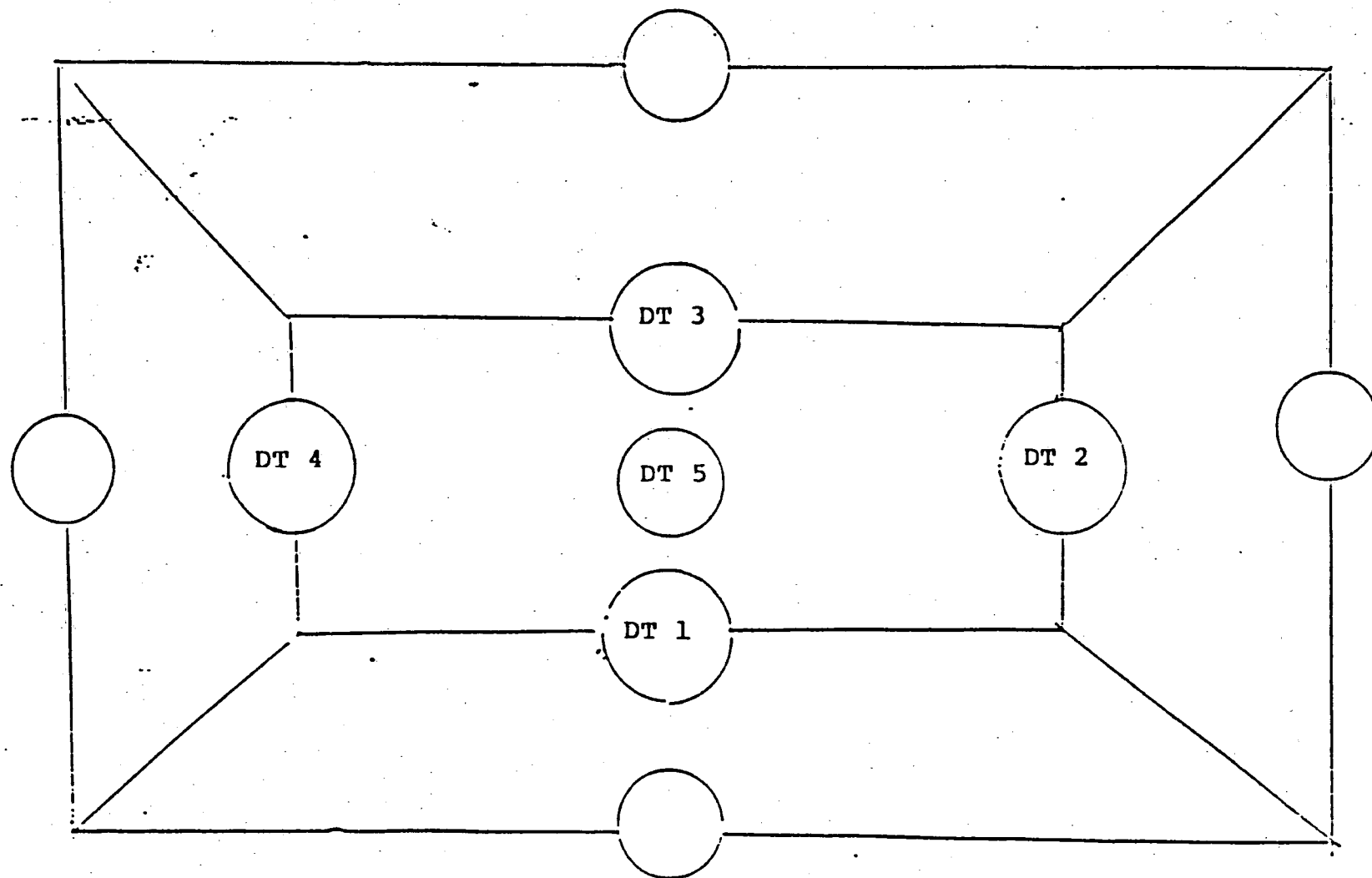


Site C 10,000 gallon Fuel Oil Tank  
 Samples CT-1 through CT-5 are  
 TPHC



Facing Excavation

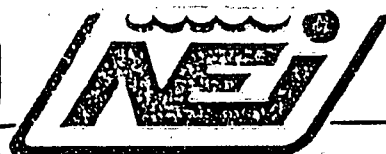
PEERLESS TUBE



Site D 1,500 gallon Fuel Oil Tank  
Samples DT-1 through DT-5  
are TPHC



Facing Excavation



nytest environmental inc.

Project No.: 89-16327

Log in No: 3062

P.O. No.: Pending

Date: December 15, 1989

ANALYTICAL DATA REPORT PACKAGE  
FOR

ENSI Incorporated

194 Avenue L

Newark, New Jersey 07105

Attn: Barry Cringer  
Ref: Peerless Tube

SAMPLE  
IDENTIFICATION

LABORATORY  
NUMBER

TYPE OF  
SAMPLE

DATE AND TIME OF  
SAMPLE COLLECTION

SEE NEXT PAGE

*gib*  
REPORT PREPARED BY:  
PARAG K. SHAH, Ph. D.  
ORGANIC LAB. MANAGER

MARLIN MCCRICKARD  
INORGANIC LAB. MANAGER

*gib*  
DOUGLAS SHEELEY  
LABORATORY DIRECTOR  
N.J. Cert #73469

bf

WE CERTIFY THAT THIS REPORT IS A  
TRUE REPORT OF RESULTS OBTAINED  
FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,  
NYTEST ENVIRONMENTAL INC.

*Reno Gigante*  
RENO GIGANTE  
EXECUTIVE V.P.

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

box 1518 □ 60 seaview blvd., port washington, ny 11050 □ (516) 625-5500

ATTACHMENT *V-19*

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Project No.:89-16327

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# CHAIN OF CUSTODY RECORD

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SHIP TO: Nytest Environmental Inc.  
60 Seaview Blvd.  
Port Washington, NY 11050  
(516) 625-5500  
Attn: Christine

REPORT TO: Client Name ENUSI INC  
Address 194 AVE C  
NEWARK NJ 07103  
Phone 201 589-0900  
Attn: Billy Orlin

Project No.		Project Name <u>Peerless TUBE</u>		Date Shipped <u>11/16/89</u>		Carrier <u>NET</u>	
Sampler: (Signature) <u>[Signature]</u>		Analytical Protocol <u>Tier II</u>		Air Bill No.		Cooler No.	
Sample I.D.	Date/Time Sampled	Sample Description	No. Of Containers	ANALYSIS REQUESTED			
AT 1	11-14-205	<u>Soil</u> <u>TAR</u>	1	TPHC			
AT 2	" 208	"	1	TPHC			
AT 3	" 310	"	1	TPHC			
AT 4	" 212	"	1	TPHC			
BT 1	" 330	"	1	TPHC			
BT 2	" 333	"	1	TPHC			
BT 3	" 335	"	1	TPHC			
BT 4	" 338	"	1	TPHC			
BCS	" 340	"	1	TPHC			

Relinquished by (Signature) <u>[Signature]</u>	Date <u>11/16</u>	Time <u>201</u>	Rec'd By (Signature) <u>Kevin Vasilik</u>	Date <u>11/16</u>	Time <u>2PM</u>
Print Name <u>Kevin Vasilik</u>			Print Name <u>KEVIN VASILIK</u>		
Relinquished by (Signature) <u>Kevin Vasilik</u>	Date <u>11/17</u>	Time <u>9:30</u>	Rec'd by (Signature) <u>[Signature]</u>	Date	Time
Print Name <u>KEVIN VASILIK</u>			Print Name		
Relinquished by (Signature)	Date	Time	Rec'd for Lab (Signature) <u>[Signature]</u>	Date	Time
Print Name			Print Name <u>DIETI PIERIDES</u>	<u>11/17</u>	<u>9:30</u>

Special Instructions/Comments Tier II Report in Triplicate  
ON all samples from Peerless TUBE

00001



nytest environmental inc

CHAIN OF CUSTODY RECORD

Page 2 of 2

SHIP TO: Nytest Environmental Inc.  
60 Seaview Blvd.  
Port Washington, NY 11050  
(516) 625-5500  
Attn: Christine Supple

REPORT TO: Client Name ENSL INC  
Address 124 AVE C  
NEWARK NJ 07105  
Phone 201 589 0900  
Attn: BARRY ORNINGTON

Project No.	Project Name	Date Shipped	Carrier
	<u>Peerless TUBE</u>	<u>11/16/89</u>	<u>NET</u>
(Signature)	Analytical Protocol	Air Bill No.	Cooler No.
<u>[Signature]</u>	<u>Test-II</u>		
Date/Time Sampled	Sample Description	No. Of Containers	ANALYSIS REQUESTED
<u>11/14/89 235</u>	<u>40 mil</u>	<u>2</u>	<u>VO + 15</u>
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<del><u>11/14/89 870</u></del>	<del><u>"</u></del>	<del><u>2</u></del>	<del><u>VO + 15</u></del>
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<del><u>11/14/89 975</u></del>	<del><u>"</u></del>	<del><u>2</u></del>	<del><u>VO + 15</u></del>
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<del><u>11/14/89 985</u></del>	<del><u>"</u></del>	<del><u>2</u></del>	<del><u>VO + 15</u></del>
<del><u>11/14/89 990</u></del>	<del><u>"</u></del>	<del><u>2</u></del>	<del><u>VO + 15</u></del>
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Shipped by (Signature)	Date / Time	Received By (Signature)	Date / Time
<u>[Signature]</u>	<u>11/16/89 2:00 PM</u>	<u>Kevin Vasilik</u>	<u>11/16/89 2:PM</u>
<u>[Signature]</u>	<u>11/17/89 9:30 AM</u>	<u>Kevin Vasilik</u>	<u>11/17/89 9:30 AM</u>
<u>[Signature]</u>	<u>11/17/89 9:30 AM</u>	<u>[Signature]</u>	<u>11/17/89 9:30 AM</u>
<u>[Signature]</u>	<u>11/17/89 9:30 AM</u>	<u>[Signature]</u>	<u>11/17/89 9:30 AM</u>

Instructions/Comments Need a week turnaround  
Sample ID # ENSI only!!  
Separate Billing for Hot Sample  
Per II Report in the Rest of the  
Client Retains Yellow Copy File  
ATTACHMENT V.22

REPORT OF ANALYSIS

Project No.: 89-16327  
Log in No. : 3062

We find as follows:  
Results in PPM  
Dry Wt. Basis, Except where noted

Sample Identification

Parameter(s)

		TPHC
3062001	AT-1	84.9
3062002	AT-2	< 10
3062003	AT-3	< 10
3062004	AT-4	< 10
3062005	BT-1	699
3062006	BT-2	< 10
3062007	BT-3	659
3062008	BT-4	66.7
3062009	BCS	28.9

METHOD BLANK\* < 0.2

\* Results are on an as received basis

Date Analyzed: 11/30/89

00010

ATTACHMENT V-23



1A-P  
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL  
CONC. LEVEL: LOW  
ANALYSIS DATE: 11/21/89

SAMPLE ID : 8V-1  
LAB ID : 3062010  
DIL FACTOR : 1.00  
% MOISTURE : 15

CMPD # CAS Number VOLATILE COMPOUNDS UG/KG  
(DRY BASIS)

1	74-87-3	Chloromethane	10.0 U.
2	74-83-9	Bromomethane	10.0 U.
3	75-01-4	Vinyl Chloride	10.0 U.
4	75-00-3	Chloroethane	10.0 U.
5	75-09-2	Methylene Chloride	7.0 TB
6	67-64-1	2-Propanone	10.0 U.
7	75-15-0	Carbon disulfide	6.0 U.
8	75-35-4	1,1-Dichloroethene	6.0 U.
9	75-34-3	1,1-Dichloroethane	6.0 U.
10	540-59-0	1,2-Dichloroethene (total)	6.0 U.
11	67-66-3	Chloroform	3.0 J.
12	107-06-2	1,2-Dichloroethane	6.0 U.
13	78-93-3	2-Butanone	6.0 U.
14	71-55-6	1,1,1-Trichloroethane	10.0 U.
15	56-23-5	Carbon Tetrachloride	6.0 U.
16	108-05-4	Vinyl Acetate	6.0 U.
17	75-27-4	Bromodichloromethane	10.0 U.
18	78-87-5	1,2-Dichloropropane	6.0 U.
19	10061-01-5	cis-1,3-Dichloropropene	6.0 U.
20	79-01-6	Trichloroethene	6.0 U.
21	124-48-1	Dibromochloromethane	260.0 T.
22	79-00-5	1,1,2-Trichloroethane	6.0 U.
23	71-43-2	Benzene	6.0 U.
24	10061-02-6	Trans-1,3-Dichloropropene	6.0 U.
25	75-25-2	Bromoform	6.0 U.
26	108-10-1	4-Methyl-2-Pentanone	6.0 U.
27	591-78-6	2-Hexanone	10.0 U.
28	127-18-4	Tetrachloroethene	10.0 U.
29	79-34-5	1,1,2,2-Tetrachloroethane	6.0 U.
30	108-98-3	Toluene	6.0 U.
31	108-90-7	Chlorobenzene	6.0 U.
32	100-41-4	Ethylbenzene	6.0 U.
33	100-42-5	Styrene	6.0 U.
34	1330-20-7	Xylene (total)	6.0 U.
35	107-02-9	Acrolein	6.0 U.
36	107-13-1	Acrylonitrile	120.0 U.
37	110-75-8	2-Chloroethylvinylether	120.0 U.
38		Dichlorodifluoromethane	10.0 U.
39		Dichlorobenzene (total)	10.0 U.
40			40.0 U.
41			

ATTACHMENT V-24  
00011

1A-P  
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL  
CONC. LEVEL: LOW  
ANALYSIS DATE: 11/21/89

SAMPLE ID : BV-2  
LAB ID : 3052011  
DIL FACTOR : 1.00  
% MOISTURE : 14

CNFD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	10.0 U.
2	74-83-9	Bromomethane	10.0 U.
3	75-01-4	Vinyl Chloride	10.0 U.
4	75-00-3	Chloroethane	10.0 U.
5	75-09-2	Methylene Chloride	8.0 TB
6	67-64-1	2-Propanone	10.0 U.
7	75-15-0	Carbon disulfide	6.0 U.
8	75-35-4	1,1-Dichloroethane	6.0 U.
9	75-34-3	1,1-Dichloroethane	6.0 U.
10	540-59-0	1,2-Dichloroethane (total)	6.0 U.
11	67-66-3	Chloroform	6.0 U.
12	107-06-2	1,2-Dichloroethane	6.0 U.
13	78-93-3	2-Butanone	10.0 U.
14	71-55-6	1,1,1-Trichloroethane	6.0 U.
15	56-23-5	Carbon Tetrachloride	6.0 U.
16	103-05-4	Vinyl Acetate	10.0 U.
17	75-27-4	Bromodichloromethane	6.0 U.
18	78-87-5	1,2-Dichloropropane	6.0 U.
19	10061-01-5	cis-1,3-Dichloropropene	6.0 U.
20	79-01-6	Trichloroethene	8.0 T.
21	124-48-1	Dibromochloromethane	6.0 U.
22	79-00-5	1,1,2-Trichloroethane	6.0 U.
23	71-43-2	Benzene	6.0 U.
24	10061-02-6	Trans-1,3-Dichloropropene	6.0 U.
25	75-25-2	Bromoform	6.0 U.
26	108-10-1	4-Methyl-2-Pentanone	10.0 U.
27	591-78-6	2-Hexanone	10.0 U.
28	127-18-4	Tetrachloroethene	6.0 U.
29	79-34-5	1,1,2,2-Tetrachloroethane	6.0 U.
30	108-88-3	Toluene	6.0 U.
31	108-90-7	Chlorobenzene	6.0 U.
32	100-41-4	Ethylbenzene	6.0 U.
33	100-42-5	Styrene	6.0 U.
34	1330-20-7	Xylene (total)	6.0 U.
35	107-02-8	Acrolein	120.0 U.
36	107-13-1	Acrylonitrile	120.0 U.
37	110-75-8	2-Chloroethylvinylether	10.0 U.
38		Dichlorodifluoromethane	10.0 U.
39		Dichlorobenzene (total)	30.0 U.
40			
41			

ATTACHMENT Y-26

00014

1A-P  
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:SOIL      SAMPLE ID :      BV-3  
CONC. LEVEL: LCM      LAB ID :      3062012  
ANALYSIS DATE:11/22/89      DIL FACTOR :      1.00  
% MOISTURE :      14

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	10.0 U.
2	74-83-9	Bromomethane	10.0 U.
3	75-01-4	Vinyl Chloride	1.0 J.
4	75-00-3	Chloroethane	10.0 U.
5	75-09-2	Methylene Chloride	5.0 JB
6	67-64-1	2-Propanone	10.0 U.
7	75-15-0	Carbon disulfide	6.0 U.
8	75-35-4	1,1-Dichloroethene	6.0 U.
9	75-34-3	1,1-Dichloroethane	6.0 U.
10	540-59-0	1,2-Dichloroethene (total)	7.0 T.
11	67-66-3	Chloroform	6.0 U.
12	107-06-2	1,2-Dichloroethane	6.0 U.
13	78-93-3	2-Butanone	10.0 U.
14	71-55-6	1,1,1-Trichloroethane	6.0 U.
15	56-23-5	Carbon Tetrachloride	6.0 U.
16	108-05-4	Vinyl Acetate	10.0 U.
17	75-27-4	Bromodichloromethane	6.0 U.
18	78-87-5	1,2-Dichloropropane	6.0 U.
19	10061-01-5	cis-1,3-Dichloropropene	6.0 U.
20	79-01-6	Trichloroethane	150.0 T.
21	124-48-1	Dibromochloromethane	6.0 U.
22	79-00-5	1,1,2-Trichloroethane	6.0 U.
23	71-43-2	Benzene	6.0 U.
24	10061-02-6	Trans-1,3-Dichloropropene	6.0 U.
25	75-25-2	Bromoform	6.0 U.
26	108-10-1	4-Methyl-2-Pentanone	10.0 U.
27	591-78-6	2-Hexanone	10.0 U.
28	127-18-4	Tetrachloroethene	6.0 U.
29	79-34-5	1,1,2,2-Tetrachloroethane	6.0 U.
30	108-88-3	Toluene	6.0 U.
31	108-90-7	Chlorobenzene	6.0 U.
32	100-41-4	Ethylbenzene	6.0 U.
33	100-42-5	Styrene	6.0 U.
34	1330-20-7	Xylene (total)	6.0 U.
35	107-02-8	Acrolein	120.0 U.
36	107-13-1	Acrylonitrile	120.0 U.
37	110-75-8	2-Chloroethylvinylether	10.0 U.
38		Dichlorodifluoromethane	10.0 U.
39		Dichlorobenzene (total)	30.0 U.
40			
41			

ATTACHMENT V-28

00017

1A-P  
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:SOIL      SAMPLE ID : 8V-4  
CONC. LEVEL: LCM      LAB ID : 3062013  
ANALYSIS DATE:11/22/89      DIL FACTOR : 1.00  
% MOISTURE : 13

CMPO #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	10.0 U.
2	74-83-9	Bromomethane	10.0 U.
3	75-01-4	Vinyl Chloride	10.0 U.
4	75-00-3	Chloroethane	10.0 U.
5	75-09-2	Methylene Chloride	4.0 JB
6	67-64-1	2-Propanone	10.0 U.
7	75-15-0	Carbon disulfide	6.0 U.
8	75-35-4	1,1-Dichloroethene	6.0 U.
9	75-34-3	1,1-Dichloroethane	6.0 U.
10	540-59-0	1,2-Dichloroethene (total)	6.0 U.
11	67-66-3	Chloroform	6.0 U.
12	107-06-2	1,2-Dichloroethane	6.0 U.
13	78-93-3	2-Butanone	10.0 U.
14	71-55-6	1,1,1-Trichloroethane	6.0 U.
15	56-23-5	Carbon Tetrachloride	6.0 U.
16	108-05-4	Vinyl Acetate	10.0 U.
17	75-27-4	Bromodichloromethane	6.0 U.
18	78-87-5	1,2-Dichloropropane	6.0 U.
19	10061-01-5	cis-1,3-Dichloropropene	6.0 U.
20	79-01-6	Trichloroethene	1.0 J.
21	124-48-1	Dibromochloromethane	6.0 U.
22	79-00-5	1,1,2-Trichloroethane	6.0 U.
23	71-43-2	Benzene	6.0 U.
24	10061-02-6	Trans-1,3-Dichloropropene	6.0 U.
25	75-25-2	Bromoform	6.0 U.
26	108-10-1	4-Methyl-2-Pentanone	10.0 U.
27	591-78-6	2-Hexanone	10.0 U.
28	127-18-4	Tetrachloroethene	6.0 U.
29	79-34-5	1,1,2,2-Tetrachloroethane	6.0 U.
30	108-88-3	Toluene	6.0 U.
31	108-90-7	Chlorobenzene	6.0 U.
32	100-41-4	Ethylbenzene	6.0 U.
33	100-42-5	Styrene	6.0 U.
34	1330-20-7	Xylene (total)	6.0 U.
35	107-02-8	Acrolein	110.0 U.
36	107-13-1	Acrylonitrile	110.0 U.
37	110-75-8	2-Chloroethylvinylether	10.0 U.
38		Dichlorodifluoromethane	10.0 U.
39		Dichlorobenzene (total)	30.0 U.
40			
41			

ATTACHMENT V-30

00020

1A-P  
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:SOIL SAMPLE ID : VBLKD3  
CONC. LEVEL: LOW LAB ID : D0022  
ANALYSIS DATE:11/21/89 DIL FACTOR : 1.00  
% MOISTURE : 0

CPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	10.0 U.
2	74-83-9	Bromomethane	10.0 U.
3	75-01-4	Vinyl Chloride	10.0 U.
4	75-00-3	Chloroethane	10.0 U.
5	75-09-2	Methylene Chloride	7.0 U.
6	67-64-1	2-Propanone	10.0 U.
7	75-15-0	Carbon disulfide	5.0 U.
8	75-35-4	1,1-Dichloroethane	5.0 U.
9	75-34-3	1,1-Dichloroethane	5.0 U.
10	540-59-0	1,2-Dichloroethane (total)	5.0 U.
11	67-66-3	Chloroform	5.0 U.
12	107-06-2	1,2-Dichloroethane	5.0 U.
13	78-93-3	2-Butanone	10.0 U.
14	71-55-6	1,1,1-Trichloroethane	5.0 U.
15	56-23-5	Carbon Tetrachloride	5.0 U.
16	108-05-4	Vinyl Acetate	10.0 U.
17	75-27-4	Bromodichloromethane	5.0 U.
18	78-87-5	1,2-Dichloropropane	5.0 U.
19	10061-01-5	cis-1,3-Dichloropropene	5.0 U.
20	79-01-6	Trichloroethene	5.0 U.
21	124-48-1	Dibromochloromethane	5.0 U.
22	79-00-5	1,1,2-Trichloroethane	5.0 U.
23	71-43-2	Benzene	5.0 U.
24	10061-02-6	Trans-1,3-Dichloropropene	5.0 U.
25	75-25-2	Bromoform	5.0 U.
26	108-10-1	4-Methyl-2-Pentanone	10.0 U.
27	591-78-6	2-Hexanone	10.0 U.
28	127-18-4	Tetrachloroethene	5.0 U.
29	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U.
30	108-88-3	Toluene	5.0 U.
31	108-90-7	Chlorobenzene	5.0 U.
32	100-41-4	Ethylbenzene	5.0 U.
33	100-42-5	Styrene	5.0 U.
34	1330-20-7	Xylene (total)	5.0 U.
35	107-02-8	Acrolein	100.0 U.
36	107-13-1	Acrylonitrile	100.0 U.
37	110-75-8	2-Chloroethylvinylether	10.0 U.
38		Dichlorodifluoromethane	10.0 U.
39		Dichlorobenzene (total)	30.0 U.
40			
41			

00023

ATTACHMENT 11-32

1A-P  
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:SOIL      SAMPLE ID      :      VBLKD4  
CONC. LEVEL: LOW      LAB ID      :      D0036  
ANALYSIS DATE:11/22/89      DIL FACTOR      :      1.00  
% MOISTURE      :      0

CYFO #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	10.0 U.
2	74-83-9	Bromomethane	10.0 U.
3	75-01-4	Vinyl Chloride	10.0 U.
4	75-00-3	Chloroethane	10.0 U.
5	75-09-2	Methylene Chloride	4.0 U.
6	67-64-1	2-Propanone	10.0 U.
7	75-15-0	Carbon disulfide	5.0 U.
8	75-35-4	1,1-Dichloroethene	5.0 U.
9	75-34-3	1,1-Dichloroethane	5.0 U.
10	540-59-0	1,2-Dichloroethene (total)	5.0 U.
11	67-66-3	Chloroform	5.0 U.
12	107-06-2	1,2-Dichloroethane	5.0 U.
13	78-93-3	2-Butanone	10.0 U.
14	71-55-6	1,1,1-Trichloroethane	5.0 U.
15	56-23-5	Carbon Tetrachloride	5.0 U.
16	108-05-4	Vinyl Acetate	10.0 U.
17	75-27-4	Bromodichloromethane	5.0 U.
18	78-87-5	1,2-Dichloropropane	5.0 U.
19	10061-01-5	cis-1,3-Dichloropropene	5.0 U.
20	79-01-6	Trichloroethene	5.0 U.
21	124-48-1	Dibromochloromethane	5.0 U.
22	79-00-5	1,1,2-Trichloroethane	5.0 U.
23	71-43-2	Benzene	5.0 U.
24	10061-02-6	Trans-1,3-Dichloropropene	5.0 U.
25	75-25-2	Bromoform	5.0 U.
26	108-10-1	4-Methyl-2-Pentanone	10.0 U.
27	591-78-6	2-Hexanone	10.0 U.
28	127-18-4	Tetrachloroethene	5.0 U.
29	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U.
30	108-88-3	Toluene	5.0 U.
31	108-90-7	Chlorobenzene	5.0 U.
32	100-41-4	Ethylbenzene	5.0 U.
33	100-42-5	Styrene	5.0 U.
34	1330-20-7	Xylene (total)	5.0 U.
35	107-02-8	Acrolein	100.0 U.
36	107-13-1	Acrylonitrile	100.0 U.
37	110-75-8	2-Chloroethylvinylether	10.0 U.
38		Dichlorodifluoromethane	10.0 U.
39		Dichlorobenzene (total)	30.0 U.
40			
41			

00025

ATTACHMENT V-34

REPORT OF ANALYSIS  
FOR

ENSI INCORPORATED  
194 Avenue L  
Newark, NJ 07105

Attn: Barry Oringer  
Ref: Peerless Tube

Project No.: 89-16327  
Log in No: 3052  
Sample Received: 11/14/89  
Report Date: November 30, 1989  
P.O. Pending

We find as follows:  
Results in mg/kg, (Dry Wt. Basis)

## Sample Identification

## Parameter(s)

## TPHC

CT-1 3052001  
CT-2 3052002  
CT-3 3052003  
CT-4 3052004  
CT-5 3052005  
DT-1 3052006  
DT-2 3052007  
DT-3 3052008  
DT-4 3052009  
DT-5 3052010

< 10  
< 10  
< 10  
< 10  
< 10  
< 10  
< 10  
< 10  
< 10  
< 10

46.3  
< 0.2

METHOD BLANK (mg/l)

Date Analyzed: 11/29/89

Respectfully submitted,

Nyttest Environmental, Inc.

Remo Gigante, Exec. V.P.  
NJ CERT.# 73469

REPORT PREPARED BY:  
MARLIN McCRICKARD  
INORGANICS LAB MANAGER

DOUGLAS SHEELEY  
LABORATORY DIRECTOR

bf

ATTACHMENT V-36

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

ATTACHMENT W





**Metcalf & Eddy**

October 15, 1990

New Jersey Department of Environmental Protection  
Division of Water Resources  
Bureau of Underground Storage Tanks  
Discharge Investigation Section  
401 East State Street  
Trenton, New Jersey 08625-0029

Attention: Doug Burry

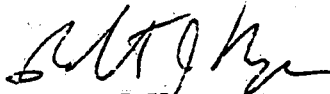
Dear Mr. Burry:

Metcalf & Eddy is pleased to submit for your review two (2) copies of the DICAR report addressing four (4) underground storage tanks at Peerless Tube's Bloomfield facility.

If you have any questions, please contact either Clare Sullivan or myself at 201/685-4247.

Sincerely,

METCALF & EDDY, INC.

  
Robert J. Kunze  
Project Manager

RJK:cel  
Encl.

c: Barry Marell  
Frederick Remington, Jr.  
Bloomfield Health Department

RECEIVED  
OCT 17 1 59 PM '90  
BUREAU OF UNDERGROUND  
STORAGE TANKS

ATTACHMENT W-1

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Appendix B:	Scale Site Map
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Appendix D:	UST Analytical Results
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Appendix F:	As-Built Diagrams
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## 1.0 BACKGROUND INFORMATION

The Peerless Tube Company facility, located at 58 Locust Avenue in Bloomfield, New Jersey, contracted ENSI Incorporated of Newark, New Jersey in November of 1989, to abandon in-place or remove four (4) underground storage tanks (USTs) at Peerless Tube's Bloomfield facility.

Three (3) of the four (4) USTs contained No. 4 fuel oil and ranged in size from 1,500 to 20,000-gallons. Tank A had a capacity of 20,000-gallons; Tank C - 10,000-gallons; and Tank D - 1,500-gallons. The remaining tank (Tank B) was a 10,200-gallon UST which, since 1984, contained trichloroethene. Prior to 1984, this tank also contained No. 4 fuel oil.

Two (2) of the three (3) fuel oil USTs were excavated and removed by ENSI. The third fuel oil and trichloroethene UST was abandoned in-place, due to the close proximity of both tanks to a high pressure gas main and the foundation of the Peerless Tube manufacturing building. Soil samples collected and analyzed in conjunction with the tank removal and abandonment indicated that the three (3) No. 4 fuel oil USTs did not leak. However, soil samples collected from borings around the perimeter of the trichloroethene tank indicated this UST may have leaked. Trichloroethene was detected in three (3) of the four (4) soil samples at concentrations ranging from below laboratory detection limits of (0.001) to 0.250 parts per million (ppm). In addition, total petroleum hydrocarbons (TPHC) were detected in two (2) of the four (4) soil samples in concentrations exceeding NJDEP recommended action limits of 100 ppm TPHC in soil. These two (2) soil samples collected at the Tank B area, detected TPHC in concentrations of 659 and 699 ppm.

The release from the trichloroethene UST was reported to the New Jersey Department of Environmental Protection (NJDEP) Bureau of Underground Storage Tanks (BUST) hotline on January 12, 1990 (UST Registration No. 0077817-E1). Metcalf & Eddy, Inc. (M&E) was contracted on January 31, 1990 by Peerless Tube to complete the closure of the USTs and implement a Discharge Investigation and Corrective Action Report (DICAR).

On April 10, 1990, a letter was received from the New Jersey BUST requiring the Peerless Tube facility to complete a DICAR investigation. The enclosed DICAR report was prepared by M&E on behalf of Peerless Tube to comply with the April 10, 1990 BUST letter.

## 2.0 SITE CHARACTERIZATION

### 2.1 Site Setting

The Peerless Tube facility is in an industrial and residential neighborhood. Properties surrounding the facility include an elementary school to the west, Watsessing County Park to the north, the Garden State Parkway to the east, and residential dwellings to the south. At least 95% of the property is paved over with asphalt. A site location map is presented in Figure 1. The map is taken from the 1981 revision of the Orange USGS Topographic 7.5 minute quadrangle map.

### 2.2 Climatological Conditions

The following information contained in this section was obtained from the 1968 publication entitled, the "State of New Jersey Department of Conservation and Economic Development, Special Report No. 28, Groundwater Resources of Essex County, New Jersey". The annual precipitation for Essex County averages more than 48-inches, which is commonly well distributed throughout the year. Precipitation is received from storms which generally originate from the northwest or southwest, depending upon the season of the year. However, infrequent and generally higher precipitation producing storms are of tropical nature, and originate from the south and southeast.

The average January temperature varies from 28°F in the western portion of the county to 39°F in the eastern part of Essex County. Average temperatures in July range from about 72°F in western Essex County to 74°F in the eastern part of the county.

### 2.3 Soils

No USDA Soil Conservation Service Soil Survey Reports have been prepared for Essex County. There was a soil survey completed in the 1950s, by the New Jersey Highway Authority and Rutgers College. According to this report, the principal soil type which was identified in the general region is the Merrimack Series, which is currently referred to as the Riverhead Series. Characteristics of the Riverhead Series are presented on the following page.

<u>Soil Type</u> <u>(pH)</u>	<u>Depth From</u> <u>Reaction</u> <u>Surface</u>	<u>Depth to Seasonal</u> <u>High Water Table (FT)</u>	<u>USDA Texture</u>	<u>Permeability</u> <u>(in/hr)</u>	
Riverhead	0 - 10	>5	Sandy Loam	2.0 - 6.0	4.5 - 5.5
	10 - 36		Silt Loam	2.0 - 6.0	4.5 - 5.5
	36 - 60		Sand, Gravel	>6.0	4.5 - 5.5

(Source: Soil Survey Report for Somerset County, New Jersey USDA SCS, 1981)

The Riverhead Series consists of deep, well drained soils, which are gently sloping to strongly sloping soils. They are derived from glacial outwash deposits which consist of granular, mainly granitic material containing minor amounts of shale, sandstone and quartzite. Permeability is mildly rapid and the available water capacity is moderate. The generic soil type may be described as follows: the surface layer is characteristically dark-brown, sandy loam, 3-inches thick; the subsurface layer is 7-inches of brown, sandy loam; the subsoil is 20-inches of strong brown, light sandy loam and sandy loam; and the mottled substratum, between depths of 36 and 60-inches, is brown, fine sand. In general, these soils are considered to be strongly acidic and have a low natural fertility.

## 2.4 Potential Receptors

### 2.4.1. Site Hydrology

Site elevations throughout the facility are approximately 120 feet above Mean Sea Level (MSL). The overall direction of site slope and drainage is to the north to northeast toward Wigwam Brook. Wigwam Brook flows approximately 1,000 feet northeast where it empties into Second River. Second River flows east to southeast approximately 2-1/2 miles where it empties into the Passaic River.

### 2.4.2. Well Search

A well search was requested from NJDEP's Bureau of Water Allocation (BWA) by M&E. A one (1) mile computer radius search of all major supply wells exceeding 100,000-gallons per day, and a 1/4 mile search of well records was requested in a letter to NJDEP's BWA on July 17, 1990. The manual 1/4 mile well search located no wells within a 1/4 mile radius of the site. However, Peerless Tube has two (2) supply wells on-site. One (1) well, designated as Well #1, was drilled in 1947, is 251 feet

deep and is located in front of the main shipping dock. The second well, Well #2, was drilled in 1939, and is 252 feet deep and is located behind the personnel offices. Neither of these wells are currently in use. Permits for these supply wells are maintained by Peerless Tube and the wells are used only as a backup water supply. The facility obtains water from the municipal supply. Figure 2 shows the approximate location of these two (2) wells. A summary of the well search information is listed in Table 1.

The NJDEP BWA radial computer search identified six (6) supply wells within one (1) mile of the Peerless Tube site. These well locations are shown in Figure 2 and the well information is summarized in Table 1. The NJDEP radius well search information is enclosed in Appendix A.

#### 2.4.3. Subsurface Utilities and Structures

A site map with a scale of 1" = 20' is enclosed in Appendix B. The site survey map was prepared by Borrie, McDonald and Watson of Bloomfield, New Jersey, Surveyor's License Number NJ 10888. Figure 3 is a site sketch which identifies the locations of three (3) monitoring wells, two (2) supply wells, former tank locations, and sump pumps. The site map enclosed in Appendix B shows all known subsurface utilities. A basement is also present under the administration building. On July 27, 1990, a physical search was conducted for evidence of petroleum discharge in local subsurface structures using an organic vapor analyzer (OVA). No evidence of volatile compounds (includes trichloroethene) was detected. Areas screened with the OVA include the administration building basement and storm drains on Kennedy Drive and Locust Avenue.

### **2.5 Underground Storage Tanks**

#### 2.5.1. Introduction

Four (4) USTs were addressed by ENSI from November 6 through 16, 1989. A sketch of the facility illustrating the locations of these tanks is included as Figure 3. All four (4) tanks have been registered with the NJDEP, UST Registration No. NJ 0077817. A copy of the registration is attached as Appendix C. The activities taken at each of these tanks are described below. Copies of the analytical results collected by ENSI are included in Appendix D.

#### *2.5.1.1. Tank A*

Tank A is located approximately 60 feet west of John F. Kennedy Drive. According to the tank registration form, this tank has a capacity of 20,000-gallons and contained No. 4 fuel oil. The tank is of steel construction and is eleven (11) years old.

Due to the proximity of the tank to the building foundation on one side and a 6-inch steel high pressure gas main on the other side of the tank, the decision was made to abandon this tank in-place. The tank was vacuumed, cleaned and filled with bank-run sand material. A copy of the certification of this material is enclosed as Appendix C.

ENSI collected a total of four (4) samples from around this tank at a depth of 5 feet below grade. Copies of the sampling location sheets provided are attached in Appendix C. All samples were analyzed for TPHC. The sample results are presented in Table 2. All results are below NJDEP Division of Hazardous Waste Management (DHWM) action levels for TPHC of 100 ppm TPHC in soil. Only one (1) sample collected contained a low concentration of TPHC, all other samples were non-detectable.

Based on M&E's review of ENSI sampling procedures and observations made by Peerless Tube personnel at the time regarding the absence of visual contamination, M&E believes this singular low level hit is the result of the introduction of contaminated surface soils or asphalt to the sample collection point.

#### *2.5.1.2. Tank B*

Tank B is located approximately 110 feet west of John F. Kennedy Drive and adjacent to Tank A. According to the tank registration form, this tank had a capacity of 10,200-gallons and last contained trichloroethene. According to Peerless Tube personnel, this tank contained fuel oil until 1984, when it was emptied, cleaned and changed service to the storage of trichloroethene. This tank was of steel construction and was nineteen (19) years old.

As was the case with Tank A, the decision was made to close this tank in-place. The tank was vacuumed, cleaned and filled with the bank-run sand in the same manner described above.



ENSI collected a total of four (4) samples from around this tank at a depth of 5 feet below grade. Copies of the sampling location sheet provided are attached in Appendix C. Samples at each location were analyzed for TPHC and volatile organics plus a forward library search. The sample results are presented in Table 3. Soil samples collected from borings around the perimeter of the trichloroethene tank indicated this UST may have leaked. Trichloroethene was detected in three (3) of the four (4) soil samples at concentrations ranging from below laboratory detection limits (0.001 ppm) to 0.250 ppm. In addition, TPHCs were detected in two (2) of the four (4) soil samples in concentrations exceeding NJDEP - DHWM recommended action limits of 100 ppm TPHC in soil. These two (2) soil samples detected TPHC in concentrations of 659 and 699 ppm.

The release from the trichloroethene UST, New Jersey Bureau of Underground Storage Tanks (BUST) UST Registration No. 0077817-E1, was reported to the NJDEP hotline on January 12, 1990. M&E was contracted on January 31, 1990 by Peerless Tube to complete the closure of the USTs and implement a DICAR.

#### *2.5.1.3. Tank C*

Tank C is located on the opposite side of Locust Avenue from Tanks A and B, approximately 100 feet west of John F. Kennedy Drive. According to the tank registration form, this tank has a capacity of 10,800-gallons and contained No. 4 fuel oil. This tank is of steel construction and is of unknown age.

Due to its location, this tank was able to be excavated and removed. Prior to removal, the tank was vacuumed and cleaned. After the tank was excavated, it was cut up and taken to Naporano Iron and Metal Company of Newark, New Jersey. Samples were collected as noted on the sketches included in Appendix C. All samples were analyzed for TPHC and the results are presented in Table 4. No detectable levels were found.

#### *2.5.1.4. Tank D*

Tank D is located on the northwest portion of the facility behind the former CECO building. This 1,500-gallon tank is of unknown age and contained No. 4 heating oil to service the CECO building. The tank was of steel construction.

This tank was removed under the same conditions as Tank C. As was the case with Tank C, the excavation was backfilled with certified bank-run described previously.

Samples were collected as noted on the sketches in Appendix C. All samples were analyzed for TPHC and the results are presented in Table 5. All results were below NJDEP action levels for TPHC. Only one (1) sample contained a low level hit of TPHC (46.3 ppm).

Based on M&E's review of ENSI sampling procedures and observations made by Peerless Tube that the tank was intact with no stained soil observed, no further action warranted.

### 3.0 EXCAVATED SOIL AND REMOVAL

Overburden generated (approximately 20 cubic yards) during the uncovering of the tanks on-site, was stockpiled on plastic at the corner of the curbed, asphalt covered parking lot, as indicated on Figure 3.

On February 2, 1989, M&E collected a composite sample of this stockpiled soil for the purpose of waste classification. In preparing the composite, representative samples were collected from five (5) separate locations approximately 6-inches below the surface of the pile. These grab samples were collected using a dedicated decontaminated stainless steel trowel. The composite of the five (5) separate areas were mixed together thoroughly in a decontaminated stainless steel mixing bowl and then divided in half, with one half directly placed into the sample bottles provided by the laboratory. The samples were delivered to Accutest Laboratories in Dayton, New Jersey, for ID 27 Waste Classification parameters. Accutest Laboratories is a New Jersey certified laboratory (Certification No. 12129).

The laboratory analytical report for this waste classification analysis is enclosed in Appendix E. Results of this analysis are summarized in Table 6. This material will be properly disposed of at an authorized off-site location. Disposal information and documentation will be furnished to BUST when it is completed.

## 4.0 EVALUATION OF SUBSURFACE CONDITIONS

### 4.1 Monitoring Well Installation

M&E installed three (3) unconsolidated soil-type monitoring wells at the Peerless Tube facility on July 12 and 13, 1990. The newly installed monitoring well locations are shown in Figure 3. The three (3) monitoring wells were installed by Advanced Environmental Boring, Inc. (AEB) under the supervision of an M&E geologist. AEB's driller, Kevin Spronz is a New Jersey licensed driller. The following permit numbers were assigned by the NJDEP for the installation and identification of the three (3) wells:

<u>Well Number</u>	<u>Well Permit Number</u>
MW-1	26-21051-7
MW-2	26-21052-5
MW-3	26-21053-3

Due to the site's flat surface topography which occurs between the elevations of 116 and 123 feet above MSL and similar depth to the water table, all three (3) monitoring wells were installed with the same basic construction. As-built diagrams are enclosed as Appendix F. Monitoring Well Certification Form A and Form B are enclosed as Appendix G. Table 7 provides a summary of the well construction used during the installation of the three (3) monitoring wells. The wells were installed using a B-57 Mobile Drill Rig equipped with hollow stem augers. Split spoon soil samples were collected from each monitoring well. The three (3) monitoring wells, designated MW-1, MW-2 and MW-3, as-built well construction are as follows:

1. **Total Well Depth** - The total completed depth of the three (3) wells averages 14.5 feet from grade (approximate average elevation +105.72 feet above MSL).
2. **Well Screen** - 10 to 13 feet of 4-inch schedule 40, 20 slot PVC well screen was set from 2 to 15 feet below grade (approximate average elevation +117.27 to +105.72 feet above MSL).

3. **Well Riser** - 1.80 to 3.84 feet of 4-inch schedule 40 PVC riser pipe was set from .36 feet to a maximum of 4.20 feet below grade (approximate average elevation +119.88 feet to +117.27 feet above MSL). The riser casing was connected to the well screen by a threaded flush joint coupling.
4. **Well Screen Gravel Packing** - Gravel packing consists of No. 1 Morie Sand from 2 to 15 feet below grade (approximate average elevation of +117.76 feet to +105.12 feet above MSL).
5. **Well Seal** - 3/8-inch bentonite pellets were placed from 1 to 2.5 feet below grade (approximate average elevation +118.76 to +117.76 feet above MSL).
6. **Grout** - A grouting slurry was used consisting of Portland Type I cement with 5% (by weight) powdered bentonite mixed with water from 2.5 feet to grade (approximate average elevation +118.76 to +120.26 feet above MSL).
7. **Well Covers** - A concrete pad was installed with watertight flush-mounted curb boxes with watertight caps. All well caps were equipped with locks which were similarly keyed.

#### 4.2 Well Siting

The siting for the three (3) monitoring wells, one (1) upgradient and two (2) downgradient, was based on a review of site topography.

Monitoring well MW-1, identified in Figure 3, was placed within 10 feet downgradient of the former No. 4 fuel oil tank designated as "D". This well was placed to assess the groundwater quality in the immediate area of former tank "D" and assess the overall downgradient water quality at the Peerless Tube site.

As specified in the DICAR requirements, monitoring well MW-2 was placed within 10 feet and downgradient of the former trichloroethene tank, designated tank "B". This well will be used to assess the impact to groundwater from the documented leak at this location. In addition, because former USTs designated "A" and "C" are in close proximity to tank "B" and monitoring well MW-2 is downgradient of tanks "A" and "C", the water quality results from this well also will be used to assess potential impacts from these tanks.

The monitoring well, identified in Figure 3 as MW-3, was placed upgradient of USTs designated as "A", "B" and "C". Water quality results from this well will be used to establish background water quality.

#### 4.3 Regional Geology and Hydrogeology

Bloomfield, New Jersey is underlain by the Brunswick Formation and Watchung Basalt of the Newark Group of the Late Triassic Age. The Brunswick Formation consist mainly of shale and sandstone, with minor amounts of conglomerate. The Watchung Basalt consists of three (3) extensive sequences of lava flows containing the shale and sandstone of the Brunswick Formation. Above the Newark Group are unconsolidated clay, sand and gravel of the Pleistocene and Recent Epochs.

Groundwater is encountered in joints and fractures of consolidated rocks and in the voids of unconsolidated stratified drift deposits. The wells in the sandstone and shale of the Brunswick Formation of the Triassic Age yield from approximately 40 to 850-gallons per minute (gpm). The most productive water bearing zones of the Brunswick Formation are commonly between depths of 300 to 400 feet. Drawdown due to well pumping is greatest in the direction of strike of the Brunswick Formation (approximately N30°E), and smallest in the direction perpendicular to strike. Wells of the Watchung Basalt will usually contain small to moderate supplies of water but may occasionally yield up to 400 gpm.

#### 4.4 Site Geology

Split spoon samples were collected from each monitoring well to a maximum depth from grade of 20.5 feet (+96.39 feet above MSL). The purpose of these split spoon samples was to provide detail of the subsurface stratigraphy. Geologic logs from the monitoring wells are enclosed in Appendix H. The following two (2) geologic units plus a layer of artificial fill were identified during the installation of the monitoring wells:

1. Fill Material - The fill material varied in thickness to a maximum of 5 feet in MW-3 (elevation +118.58 feet above MSL). The fill material consisted of yellowish-red 5YR 4/6 fine sand with some silt/clay and coarse gray shale gravel. (All color references such as 10YR and 10 YR 5/4 were obtained from the Munsell Color Chart, 1990 Revised Edition.)
2. Silty Fine Sand and Fine Sand - The second unit starts below the fill material and terminates at a depth of approximately 16 feet below the surface, or about elevation +104 feet above

MSL. This geologic unit consists of a reddish-brown (5YR 3/4) fine sand with varying amounts of silt and clay.

3. Red Shale Bedrock - The third unit was encountered at approximately 16 feet and is the bedrock surface (approximate elevation +104 feet above MSL). This unit consists of reddish-brown micaceous siltstone and shale. Based upon split spoon refusal of 50/3-inches, only 8-inches of weathered bedrock was encountered.

The weathered bedrock interval appears thin with the underlying bedrock surface appears to consist of competent bedrock.

#### 4.5 Groundwater Flow Direction and Hydraulic Gradient

Based on surface topography and the apparent relief of the bedrock surface, the anticipated groundwater flow was thought to be northwest towards Wigwam Brook. However, field water level measurements taken on July 27 and September 14, 1990, suggested a groundwater flow direction to the southeast. Upon further investigation, M&E believes that the water level in monitoring well MW-3 is artificially lowered due to the presence of a nearby sump pump in the basement of the administration building. The sump pump was installed for dewatering purposes and is exempt from permitting under NJAC 7:14A-1:2(c).

The water elevations indicate that there is an active drawdown of the water table created by the sump pump which effectively lowers the static water level in monitoring well MW-3. M&E contends that the natural unaltered groundwater flow direction is northwest towards Wigwam Brook based on observation of the topography and relief of the bedrock surface.

The field water level measurements taken on July 27 and September 14, 1990, show groundwater elevations between 110.79 and 112.70 feet above MSL. Groundwater contour maps generated from each event are shown in Figures 4 and 5. Table 8 provides a summary of the water level measurements.

No free-phase product was detected on July 27 or September 14, 1990.

#### 4.6 Groundwater Laboratory Sample Results

On July 27, 1990, laboratory samples were collected in accordance with NJDEP procedures for water quality sampling from the three (3) monitoring wells. The samples were analyzed by Accutest Laboratories, a NJDEP certified laboratory, with offices located in Dayton, New Jersey. The samples were analyzed for targeted volatile organic compounds plus fifteen tentatively identified compound peaks (VOC+15) in the forward library search, targeted base neutral compounds plus fifteen tentatively identified compound peaks (BN+15) in the forward library search, and TPHC. Laboratory reports are enclosed as Appendix I.

BN and TPHC laboratory results were all below laboratory detection limits for the three (3) monitoring wells. VOCs were detected in monitoring wells MW-1 and MW-2. The distribution of these compounds are shown in Figures 6 and 7, which are summarized on Tables 9, 10 and 11.

The detected total VOC concentrations ranged from 72 parts per billion (ppb) in MW-1 to 310 ppb in MW-2. The VOCs detected were trans-1,2-dichloroethylene and trichloroethene. No tentatively identified compounds (TICs) were detected.



## 5.0 REMEDIAL RESPONSE

Based on this investigation, it appears there was minimal impact to the water table aquifer. There is no threat to public health, local wildlife or the environment for the following reasons:

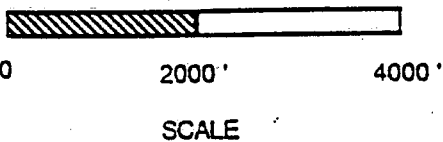
1. Only low levels of volatile compounds were detected.
2. No active water supply wells are in the immediate vicinity of the site.
3. A significant portion of the area surrounding the site is covered with asphalt.
4. No discharge to surface water is evident.

Peerless Tube contends that the tank "B" source area for the trichloroethene contamination has been properly abandoned in-place according to NJDEP protocol and is no longer an active source. Samples collected from MW-2, located within 10 feet of former Tank B, only contained 310 ppb total VOC concentrations, of which 190 ppb was detected as trichloroethene. The water table aquifer in the Bloomfield area is not used, therefore, Peerless Tube proposes no remedial activity at this time.

As an alternative, since the source of the trichloroethene has been addressed, Peerless Tube proposes that quarterly monitoring be implemented. Peerless Tube proposes the three (3) monitoring wells be sampled quarterly for trichloroethene over a one (1) year time period. Since the water table aquifer is near surface, natural degradation of the volatile trichloroethene may occur.



The Topographic Map Referenced is the  
Orange, NJ 7 1/2 minute quadrangle



METCALF & EDDY, INC.

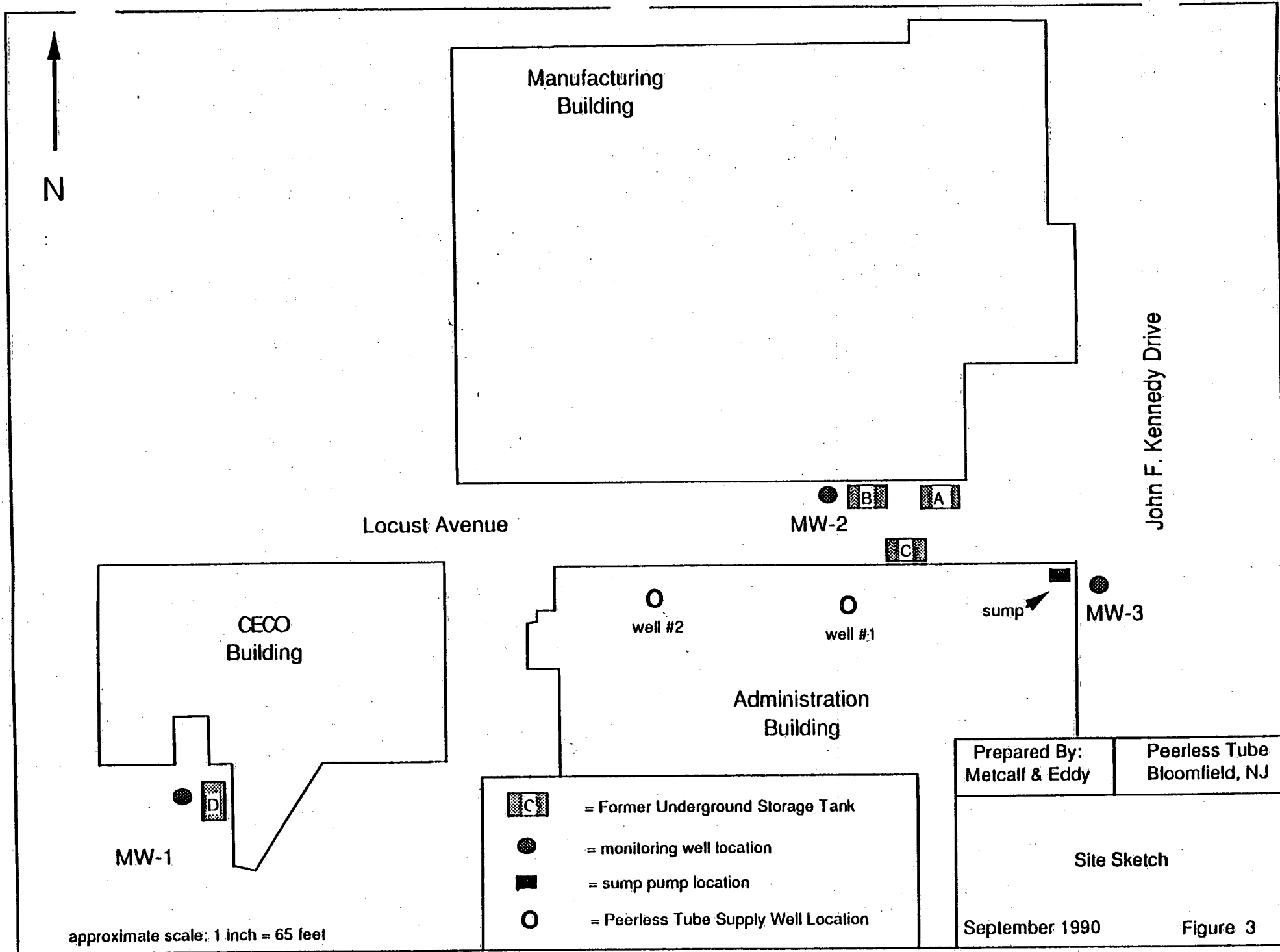
Peerless Tube  
Bloomfield, N.J.

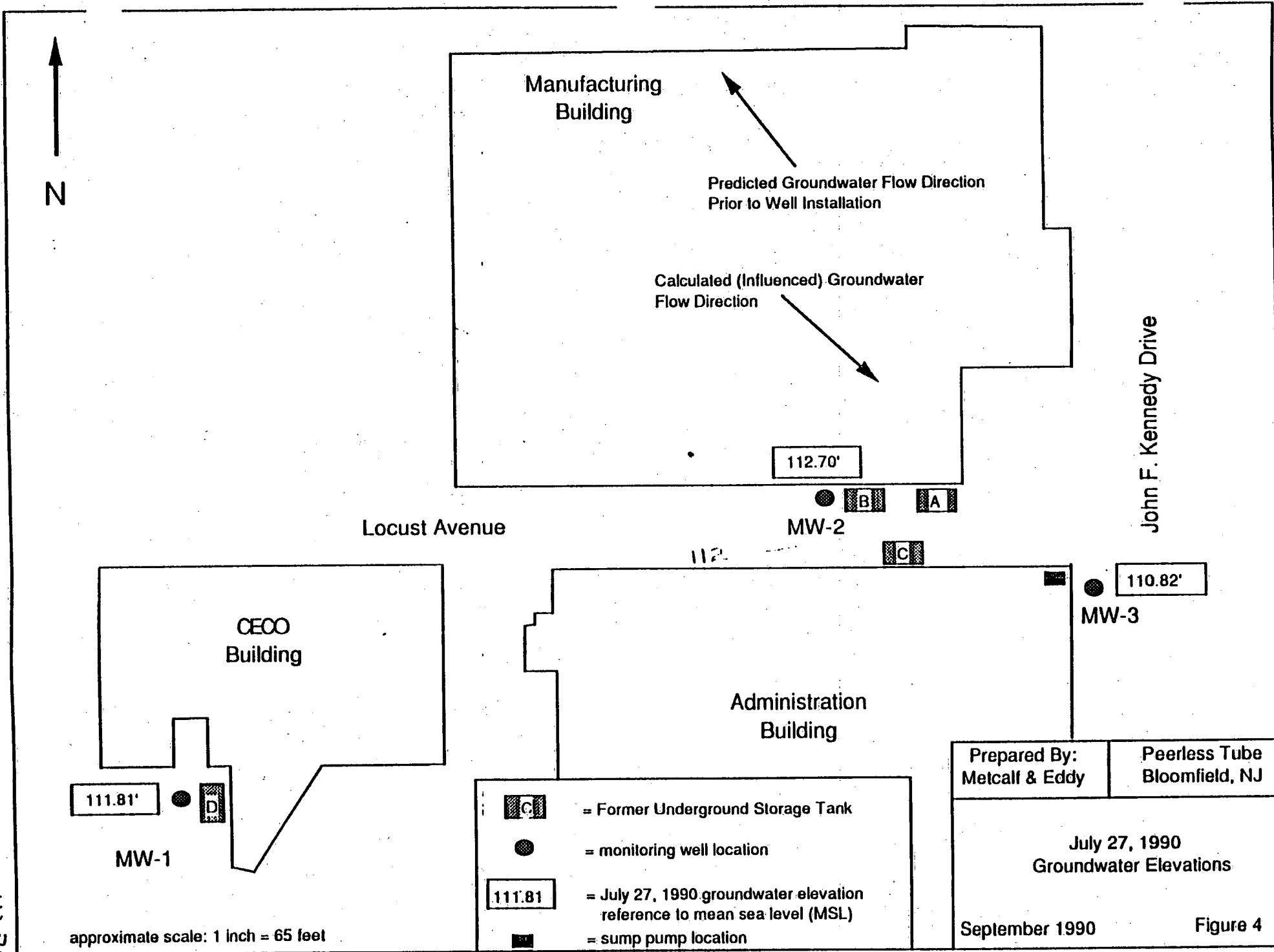
Site Location Map

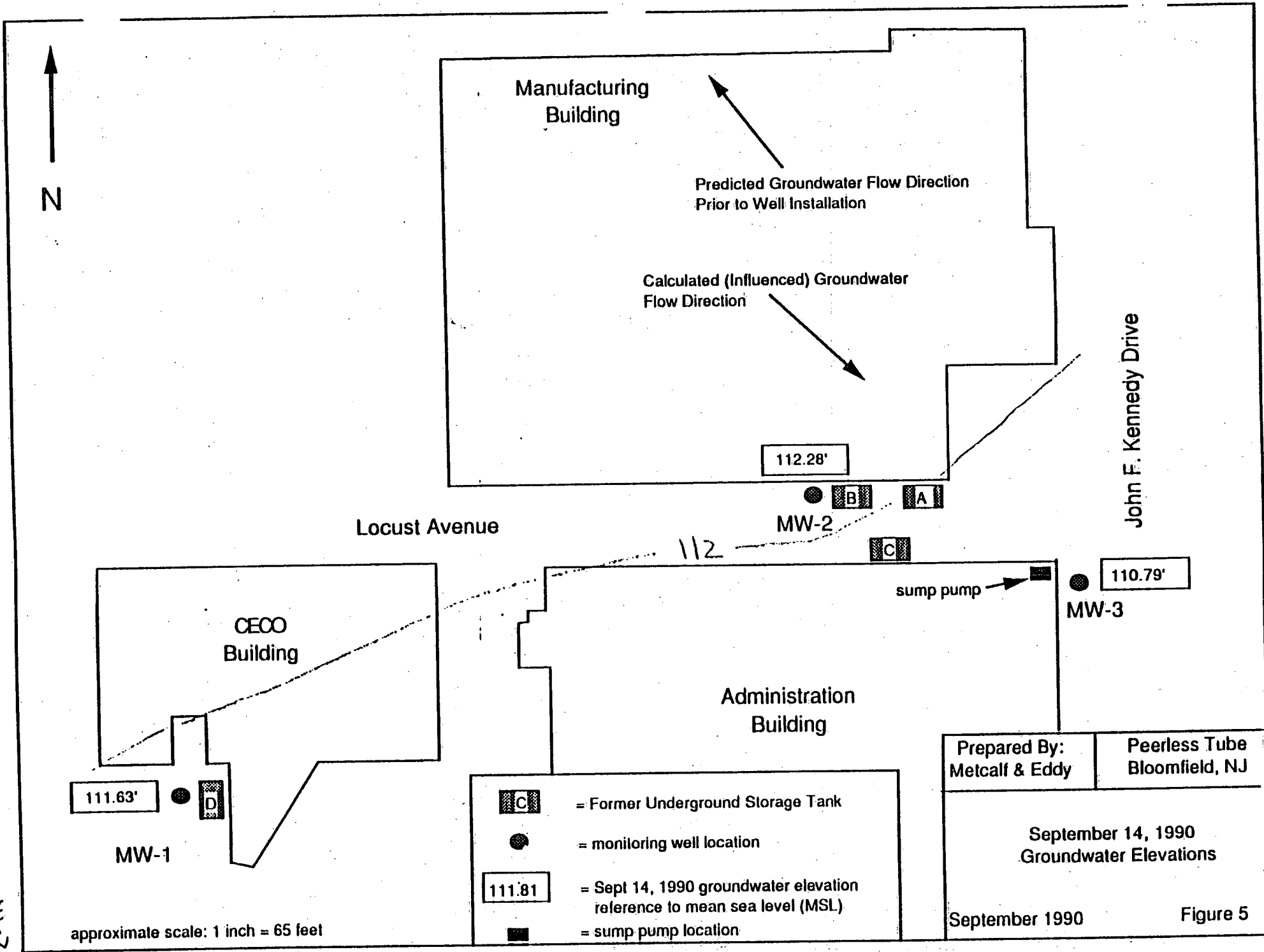
September 14, 1990

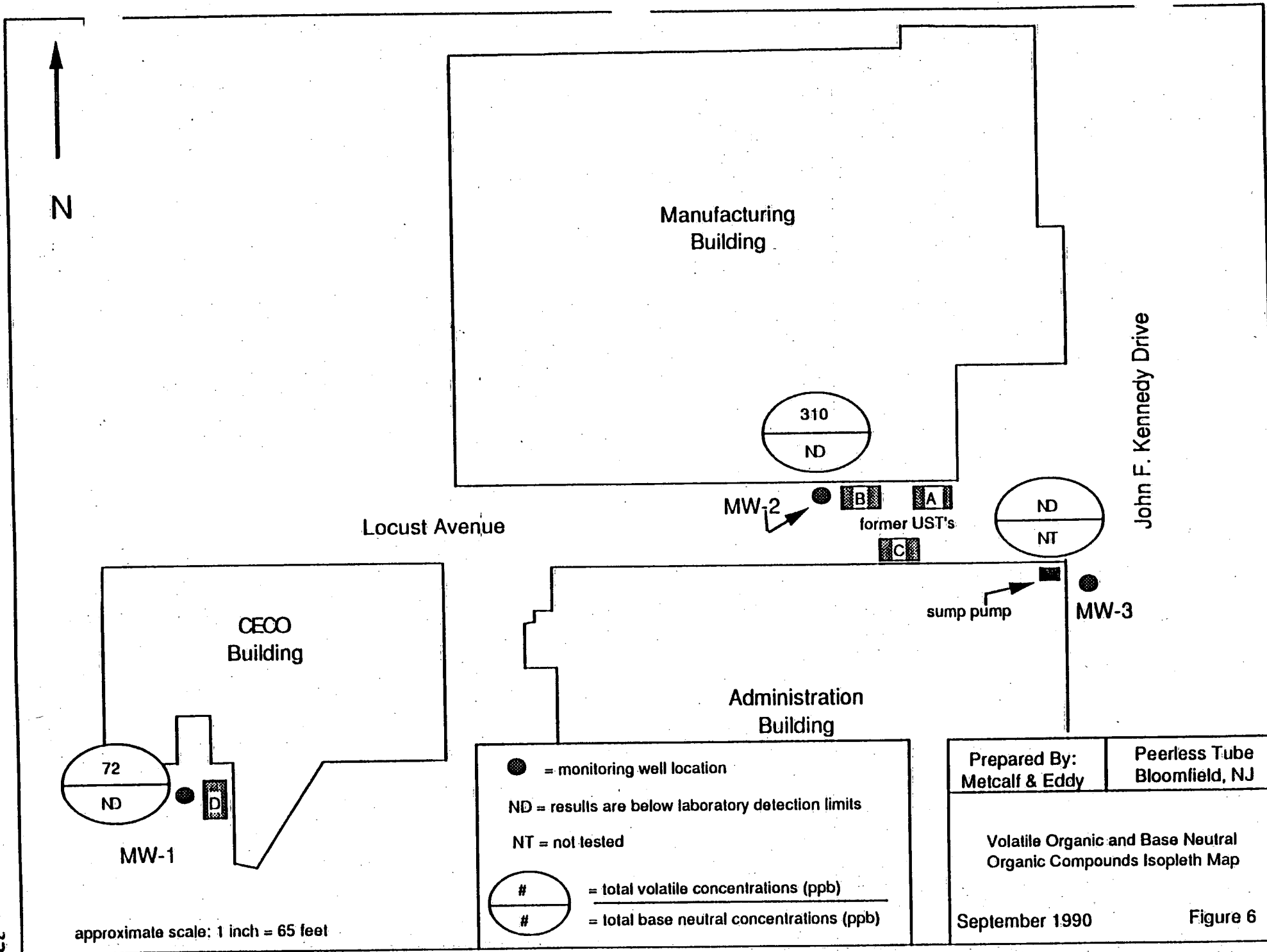
Figure 1

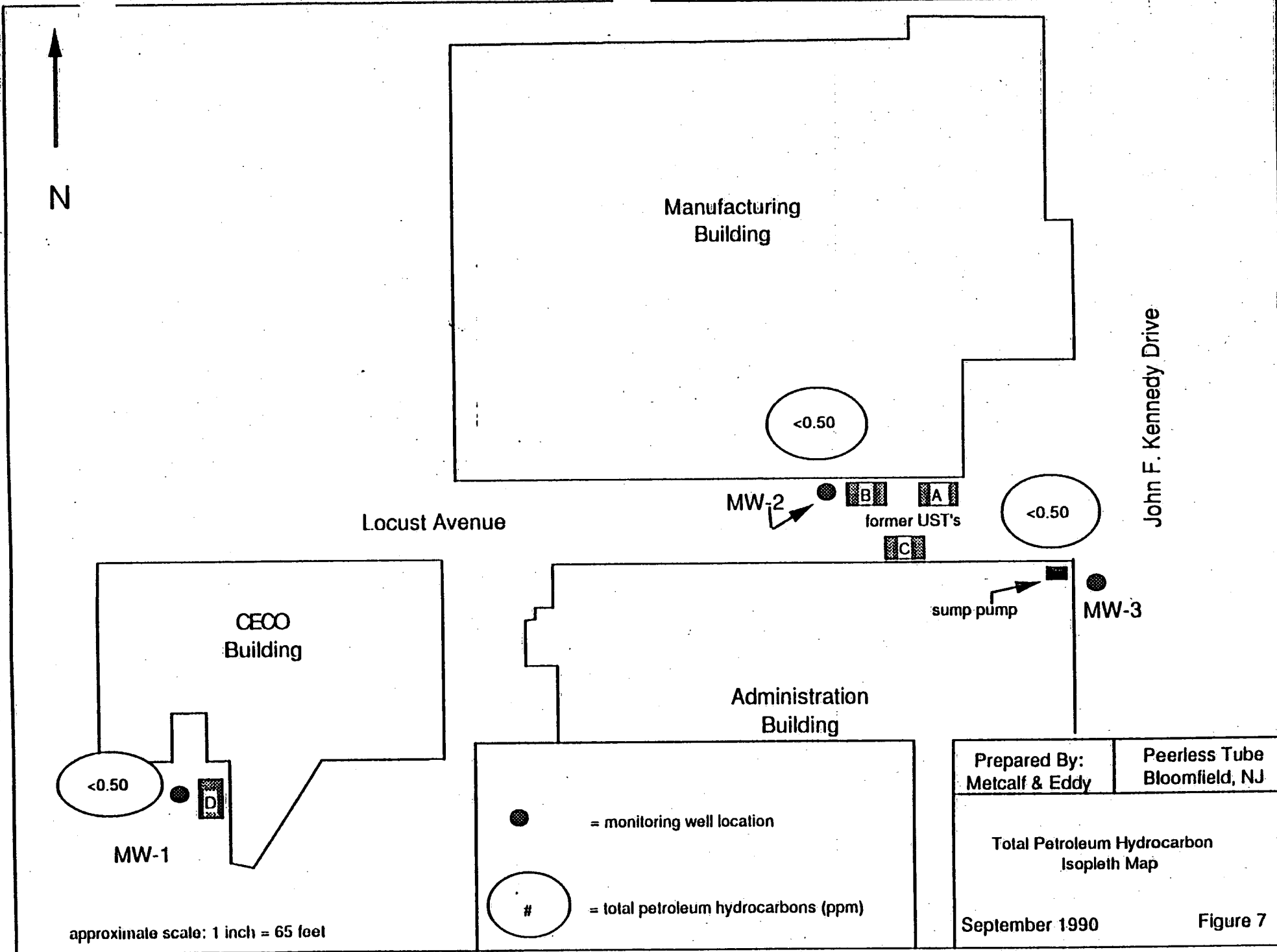
ATTACHMENT W-18











**Table 1**  
**Peerless Tube, Bloomfield, New Jersey**  
**Well Search Information for Supply Wells Within a 1 Mile Radius**

**1 Mile Radial Well Search**

**Monitoring Well**

Facility	Address	Figure 1 Designation	Distance from Site	Type Contaminant	NJGS Primary Code	NJGS Secondary Code	Status 1	Status 2
Glen Ridge Copper Industries	Bloomfield Belleville	329 656	0.6 miles 0.9 miles	radioactive waste volatile compounds	Brunswick fill	glacial (undiffer.) glacial (undiffer.)	investigation investigation	feasibility study none

**Supply Well**

Facility	Address	Figure 1 Designation	Distance from Site	Depth	Water Source	Capacity (GPM)
Schering Plough Corp.	Bloomfield	2167P	0.2 miles	478	Brunswick	160
Schering Plough Corp.	Bloomfield	2167P	0.2 miles	400	Brunswick	130
Essex Co. Dept. of Park	Bloomfield	2354P	1.0 miles	450	Brunswick	180
Essex Co. Dept. of Park	Bloomfield	2354P	1.5 miles	200	Brunswick	240
Peerless Tube #1	Bloomfield	1	on-site	251	Brunswick	230
Peerless Tube #2	Bloomfield	2	on-site	252	Brunswick	260

Information supplied by the NJDEP Bureau of Water Allocation



**Table 2**  
**Peerless Tube, Bloomfield, New Jersey**  
**Tank A - Laboratory Sample Results\***

<u>Tank A Sample Designation</u>	<u>Total Petroleum Hydrocarbons (ppm)</u>
AT-1	84.9
AT-2	<10
AT-3	<10
AT-4	<10

\* all sample-collection and sample results were obtained by ENSI, Inc.  
ppm = parts per million

Table 3  
Peerless Tube, Bloomfield, New Jersey  
Tank B - Laboratory Sample Results\*

Tank B Sample Designation	TCE (ppm)	TPHC (ppm)
BT-1/BV-1	0.260	699
BT-2/BV-2	0.008	<10
BT-3/BV-3	0.150	659
BT-4/BV-4	<0.001	66.7

TPHC = total petroleum hydrocarbons

TCE = Trichloroethene

\* all sample collection and sample results were obtained by ENSI, Inc.

ppm = parts per million

Table 4  
Peerless Tube, Bloomfield, New Jersey  
Tank C - Laboratory Sample Results\*

Tank C Sample Designation	Total Petroleum Hydrocarbons (ppm)
CT-1	<10
CT-2	<10
CT-3	<10
CT-4	<10
CT-5	<10

\* all sample collection and sample results were obtained by ENSI, Inc.  
ppm = parts per million

Table 5  
Peerless Tube, Bloomfield, New Jersey  
Tank D - Laboratory Sample Results\*

Tank D Sample Designation	Total Petroleum Hydrocarbons (ppm)
DT-1	<10
DT-2	<10
DT-3	<10
DT-4	<10
DT-5	46.3

\* all sample collection and sample results were obtained by ENSI, Inc.  
ppm = parts per million

**Table 6**  
**Peerless Tube, Bloomfield, New Jersey**  
**Waste Classification Laboratory Sample Results\***

Parameters	Results
PCB's	<41 ug/kg
EP TOX METALS	
Arsenic	<0.001 mg/l
Barium	0.17 mg/l
Cadmium	<0.01 mg/l
Chromium	<0.025 mg/l
Lead	<0.1/mg/l
Mercury	<0.001 mg/l
Selenium	<0.001/mg/l
Silver	<0.03/mg/l
CORROSIVITY	NC
CYANIDE REACTIVITY	<1.5 mg/kg
IGNITABILITY (FLASHPOINT)	NOT IGNITABLE
PETROLEUM HYDROCARBONS	230 mg/kg
SOLIDS, TOTAL PERCENT	81%
SULFIDE REACTIVITY	<20 mg/kg
PH	8.7

**Table 7**  
**Peerless Tube, Bloomfield, New Jersey**  
**Monitoring Well Construction Summary**

Monitoring Well No.	NJDEP Permit No.	Ground Surface Elevation (MSL)	Casing Elevation Top/Bottom (MSL)	Well Seal Top/Bottom (MSL)	Gravel Pack Top/Bottom (MSL)	Screen Top/Bottom (MSL)	Well Depth Bottom (MSL)
MW-1	26-21051-7	116.89'	115.47'/114.67'	115.89'/114.89'	114.89'/101.67'	114.67'/101.67'	101.67'
MW-2	26-21052-5	120.32'	119.96'/118.12'	119.32'/118.32'	118.32'/104.32'	118.12'/106.12'	104.32'
MW-3	26-21053-3	123.58'	123.22'/110.02'	121.08'/120.08'	120.08'/107.58'	119.02'/109.38'	107.58'

**Table 8**  
**Peerless Tube, Bloomfield, New Jersey**  
**Groundwater Elevations**

Well No.	Top of Casing Elevation (ft.)	Surface Elevation (ft.)	Product Thickness (ft.)	Field Measured Water Level (ft.)	Groundwater Elevation (ft.)
----------	----------------------------------	----------------------------	----------------------------	-------------------------------------	--------------------------------

**27-Jul-90**

MW-1	116.47	116.89	no product	4.66	111.81
MW-2	119.96	120.32	no product	7.26	112.70
MW-3	123.22	123.58	no product	12.40	110.82

**14-Sep-90**

MW-1	116.47	116.89	no product	4.84	111.63
MW-2	119.96	120.32	no product	7.68	112.28
MW-3	123.22	123.58	no product	12.43	110.79

Elevations are referenced to mean sea level (MSL)

**Table 9**  
**Peerless Tube, Bloomfield, New Jersey**  
**Detected Volatile Organic Laboratory Results\***

**Target Compounds**

M&E Well No. Laboratory Sample No.	MW-1 E020098	MW-2 E020097	MW-3 E020100	Trip Blank (TB) E020101	Field Blank (FB) E020099
trans-1,2-dichloroethylene	26	120	ND	ND	ND
trichloroethylene	46	190	ND	ND	ND
<b>Total Target Compounds</b>	<b>72</b>	<b>310</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**Tentatively Identified Compounds (TIC's)**

M&E Well No. Laboratory Sample No.	MW-1 E020098	MW-2 E020097	MW-3 E020100	Trip Blank (TB) E020101	Field Blank (FB) E020099
	ND	ND	ND	ND	ND
<b>Total TIC's</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

\* all results are in parts per billion (ppb)  
 ND = below laboratory detection limits  
 B = found in laboratory blank



**Table 10**  
**Peerless Tube, Bloomfield, New Jersey**  
**Detected Base Neutral Laboratory Results\***

**Target Compounds**

M&E Well No. Laboratory Sample No.	MW-1 E020098	MW-2 E020097	MW-3 E020100	Trip Blank (TB) E020101	Field Blank (FB) E020099
	ND	ND	NT	NT	ND
<b>Total Target Compounds</b>	<b>ND</b>	<b>ND</b>	<b>NT</b>	<b>NT</b>	<b>ND</b>

**Tentatively Identified Compounds (TIC's)**

M&E Well No. Laboratory Sample No.	MW-1 E020098	MW-2 E020097	MW-3 E020100	Trip Blank (TB) E020101	Field Blank (FB) E020099
Unknown	ND	10B	NT	NT	ND
<b>Total TIC's</b>	<b>ND</b>	<b>10B</b>	<b>NT</b>	<b>NT</b>	<b>ND</b>

\* all results are in parts per billion (ppb)  
 ND = below laboratory detection limits  
 B = found in laboratory blank  
 NT = not tested

**Table 11**  
**Peerless Tube, Bloomfield, New Jersey**  
**Detected Total Petroleum Hydrocarbon Laboratory Results\***

**Total Petroleum Hydrocarbons**

M&E Well No. Laboratory Sample No.	MW-1 E020098	MW-2 E020097	MW-3 E020100	Trip Blank (TB) E020101	Field Blank (FB) E020099
	<0.50	<0.50	<0.50	NT	<0.50
<b>Total Petroleum Hydrocarbons</b>	<0.50	<0.50	<0.50	NT	<0.50

\* all results are in parts per million (ppm)  
 ND = below laboratory detection limits  
 B = found in laboratory blank  
 NT = not tested

ATTACHMENT X

ANALYTICAL DATA REPORT PACKAGE  
FOR  
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
TRENTON, NEW JERSEY 08625

Case Name: PEERLESS TUBE  
Case Number: NA

Field Sample	Lab Sample #	Sample Location	Date & Time Collected
BSA11020206	CA5221	SOIL 1	11/2/90 1000
BSA11020207	CA5222	SOIL 2	11/2/90 1045
BSA11020208	CA5223	SOIL 3	11/2/90 0930
BSA11020209	CA5224	SOIL 4	11/2/90 1145
BSA11020210	CA5226	MONITORING WELL 1	11/2/90 0955
BSA11020211	CA5227	MONITORING WELL 2	11/2/90 1045
BSA11020212	CA5225	MONITORING WELL 3	11/2/90 1100
BSA11020213	CA5229	FIELD BLANK	11/2/90 0930
BSA11020214	CA5228	FIELD BLANK	11/2/90 0930
BSA11020215	CA5230	TRIP BLANK	11/2/90

ORGANICS PACKAGE

VOLUME I OF II

Laboratory Name: ETC Corporation

NJDEP Certification Number: 12257

Laboratory QA Officer: LEE ROUDYBUSH  
(PRINT)

Laboratory QA Officer:  
(SIGNATURE)

Laboratory Manager:  
(PRINT)

Laboratory Manager:  
(SIGNATURE)

Date Submitted:

GREGORY G. MORRISON

*Gregory G. Morrison*

11/8/91

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SDG NARRATIVE

This technical report submitted by ETC Corporation contains the analytical results and required deliverables for NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF FISCAL SUPPORT SERVICES Site DEPPTTSK4 (PEERLESS TUBE) samples as identified below:

<u>ETC ID</u>	<u>CLIENT ID</u>	<u>ETC ID</u>	<u>CLIENT ID</u>
CA5221	S-1	CA5226	MW-1
CA5222	S-2	CA5227	FB1
CA5223	S-3	CA5228	FB2
CA5224	S-4	CA5229	FB1
CA5225	MW-3	CA5230	TRIPBLANK

During the preparation and analysis of these samples, the following was observed:

VOLATILES: (OV70394 & OV70395): Problems were not observed during the analysis of these samples.

(OV70397): The intact sample or extract for samples CA5222 and CA5224 required dilution resulting in elevated method detection limits (MDL's).

SEMIVOLATILES: (OC70298): Problems were not observed during the preparation and analysis of these samples.

(OC70327): Internal standard area counts for sample CA5221, the matrix spike and the matrix spike duplicate were confirmed by the results of a replicate analysis.

PESTICIDES/PCBS: (OG70326): There was no apparent explanation for the matrix spike recoveries exceeding QC limits for compounds Heptachlor, Aldrin, Endrin and 4,4'-DDT or the matrix spike duplicate recoveries for gamma-BHC, Heptachlor, Aldrin, Dieldrin, Endrin and 4,4'-DDT. Due to QC limits being advisory, no further corrective action was taken.

(OG70327): Surrogate recoveries for samples CA5221 and CA5222 exceeded QC limits.

The matrix spike and matrix spike duplicate exceeded QC limits. Surrogate and spike recoveries are advisory only, therefore, no further corrective action was taken.

The Individual Standard Mix A check standard failed required limits for percent difference for the analyte Methoxychlor. The batch was accepted based on the fact that there was not Methoxychlor detected in any of the samples.

**SAMPLE DATA**

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

A5221

Soil 1

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: CA5221V2

Sample wt/vol: 2.85 <sup>(A)</sup> (g/mL) G  
1-4-91

Lab File ID: >D1935

Level: (low/med) LOW

Date Received: 11/03/90

% Moisture: not dec. 10

Date Analyzed: 11/10/90

Column: (pack/cap) PACK

Dilution Factor: 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3	Chloromethane	20 22	IU
74-83-9	Bromomethane	20 22	IU
75-01-4	Vinyl Chloride	20 22	IU
75-00-3	Chloroethane	20 22	IU
75-09-2	Methylene Chloride	32 35	IU
67-64-1	Acetone	20 22	IU
75-15-0	Carbon Disulfide	10 12	IU
75-35-4	1,1-Dichloroethene	10 12	IU
75-34-3	1,1-Dichloroethane	10 12	IU
540-59-0	1,2-Dichloroethene (total)	140 150	IU
67-66-3	Chloroform	10 11	IU
107-06-2	1,2-Dichloroethane	10 11	IU
78-93-3	2-Butanone	20 22	IU
71-55-6	1,1,1-Trichloroethane	10 11	IU
56-23-5	Carbon Tetrachloride	10 11	IU
108-05-4	Vinyl Acetate	20 22	IU
75-27-4	Bromodichloromethane	10 11	IU
78-87-5	1,2-Dichloropropane	10 11	IU
10061-01-5	cis-1,3-Dichloropropene	10 11	IU
79-01-6	Trichloroethene	190 220	IU
124-48-1	Dibromochloromethane	10 11	IU
79-00-5	1,1,2-Trichloroethane	10 11	IU
71-43-2	Benzene	10 11	IU
10061-02-6	trans-1,3-Dichloropropene	10 11	IU
75-25-2	Bromoform	10 11	IU
108-10-1	4-Methyl-2-Pentanone	20 22	IU
591-78-6	2-Hexanone	20 22	IU
127-18-4	Tetrachloroethene	3	IJ
79-34-5	1,1,2,2-Tetrachloroethane	10 11	IU
108-88-3	Toluene	10 11	IU
108-90-7	Chlorobenzene	10 11	IU
100-41-4	Ethylbenzene	10 11	IU
100-42-5	Styrene	10 11	IU
1330-20-7	Xylene (total)	10 11	IU

65



## EPA SAMPLE NO.

1A5221

Sol -

Contract:

SDG No. :

Lab Sample ID: CA5221V2

Lab File ID: >D1935

Date Received: 11/03/90

Date Analyzed: 11/10/90

Dilution Factor: 2 ~~1.5~~

(ug/L or ug/Kg) UG/KG

Number TICs found: 1

[illegible]

66

FORM I VOA-TIC

1/87 Rev.

ATTACHMENT X-6-

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC  
A5222  
Soil-2

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: CA5222V

Sample wt/vol: .1 (g/mL) G

Lab File ID: >D1943

Level: (low/med) MED

Date Received: 11/03/90

% Moisture: not dec. 88 (A) 14-41

Date Analyzed: 11/10/90

Column: (pack/cap) PACK

Dilution Factor:

50 (A) 14-41

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

74-87-3	-----Chloromethane	540	IU
74-83-9	-----Bromomethane	540	IU
75-01-4	-----Vinyl Chloride	540	IU
75-00-3	-----Chloroethane	540	IU
75-09-2	-----Methylene Chloride	470	IB
67-64-1	-----Acetone	540	IU
75-15-0	-----Carbon Disulfide	270	IU
75-35-4	-----1,1-Dichloroethene	200	IJ
75-34-3	-----1,1-Dichloroethane	270	IU
540-59-0	-----1,2-Dichloroethene (total)	4700	I
67-66-3	-----Chloroform	270	IU
107-06-2	-----1,2-Dichloroethane	270	IU
78-93-3	-----2-Butanone	540	IU
71-55-6	-----1,1,1-Trichloroethane	270	IU
56-23-5	-----Carbon Tetrachloride	270	IU
108-05-4	-----Vinyl Acetate	540	IU
75-27-4	-----Bromodichloromethane	270	IU
78-87-5	-----1,2-Dichloropropane	270	IU
10061-01-5	-----cis-1,3-Dichloropropene	270	IU
79-01-6	-----Trichloroethene	19000 17000	IE (A) 14-41
124-48-1	-----Dibromochloromethane	270	IU
79-00-5	-----1,1,2-Trichloroethane	270	IU
71-43-2	-----Benzene	270	IU
10061-02-6	-----trans-1,3-Dichloropropene	270	IU
75-25-2	-----Bromoform	270	IU
108-10-1	-----4-Methyl-2-Pentanone	540	IU
591-78-6	-----2-Hexanone	540	IU
127-18-4	-----Tetrachloroethene	90	IJ
79-34-5	-----1,1,2,2-Tetrachloroethane	270	IU
108-88-3	-----Toluene	270	IU
108-90-7	-----Chlorobenzene	270	IU
100-41-4	-----Ethylbenzene	270	IU
100-42-5	-----Styrene	270	IU
1330-20-7	-----Xylene (total)	270	IU

## EPA SAMPLE NO.

1A5222

Soil - 2

SDG No. :

Lab Sample ID: CA5222V

Lab File ID: >D1943

Date Received: 11/03/90

Date Analyzed: 11/10/90

Dilution Factor: 50.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

FORM I VOA-TIC

1/87 Rev.

75

ATTACHMENT X-8

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC

Lab Name: ETC Corp Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: CA5222V  
 Sample wt/vol: 1.05 (g/mL) G Lab File ID: >D1949  
 Level: (low/med) MED Date Received: 11/03/90  
 % Moisture: not dec. 8 Date Analyzed: 11/11/90  
 Column: (pack/cap) PACK Dilution Factor: 100

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

Q

74-87-3	-----Chloromethane	1100	U D
74-83-9	-----Bromomethane	1100	U D
75-01-4	-----Vinyl Chloride	1100	U D
75-00-3	-----Chloroethane	1100	U D
75-09-2	-----Methylene Chloride	1100	U D
67-64-1	-----Acetone	720	B D
75-15-0	-----Carbon Disulfide	1100	U D
75-35-4	-----1,1-Dichloroethene	540	U D
75-34-3	-----1,1-Dichloroethane	240	J D
540-59-0	-----1,2-Dichloroethene (total)	540	U D
67-66-3	-----Chloroform	6200	D
107-06-2	-----1,2-Dichloroethane	540	U P
78-93-3	-----2-Butanone	540	U D
71-55-6	-----1,1,1-Trichloroethane	1100	U D
56-23-5	-----Carbon Tetrachloride	540	U D
108-05-4	-----Vinyl Acetate	540	U D
75-27-4	-----Bromodichloromethane	1100	U D
78-87-5	-----1,2-Dichloropropane	540	U D
10061-01-5	-----cis-1,3-Dichloropropene	540	U D
79-01-6	-----Trichloroethene	540	U D
124-48-1	-----Dibromochloromethane	19000	D
79-00-5	-----1,1,2-Trichloroethane	540	U D
71-43-2	-----Benzene	540	U D
10061-02-6	-----trans-1,3-Dichloropropene	540	U D
75-25-2	-----Bromoform	540	U D
108-10-1	-----4-Methyl-2-Pentanone	540	U D
591-78-6	-----2-Hexanone	1100	U P
127-18-4	-----Tetrachloroethene	1100	U D
79-34-5	-----1,1,2,2-Tetrachloroethane	130	J D
108-88-3	-----Toluene	540	U D
108-90-7	-----Chlorobenzene	540	U D
100-41-4	-----Ethylbenzene	540	U D
100-42-5	-----Styrene	540	U D
1330-20-7	-----Xylene (total)	540	U D
		540	U D

FORM I VOA

1/84 Rev.

ATTACHMENT X-9

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A5223

Soil-3

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: CA5223U

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: >D1929

Level: (low/med) LOW

Date Received: 11/03/90

% Moisture: not dec. 15

Date Analyzed: 11/09/90

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	18/2	UU
74-83-9	Bromomethane	18/2	UU
75-01-4	Vinyl Chloride	18/2	UU
75-00-3	Chloroethane	18/2	UU
75-09-2	Methylene Chloride	8	UU
67-64-1	Acetone	18/2	UU
75-15-0	Carbon Disulfide	56	UU
75-35-4	1,1-Dichloroethene	56	UU
75-34-3	1,1-Dichloroethane	56	UU
540-59-0	1,2-Dichloroethene (total)	56	UU
67-66-3	Chloroform	56	UU
107-06-2	1,2-Dichloroethane	56	UU
78-93-3	2-Butanone	18/2	UU
71-55-6	1,1,1-Trichloroethane	56	UU
56-23-5	Carbon Tetrachloride	56	UU
108-05-4	Vinyl Acetate	18/2	UU
75-27-4	Bromodichloromethane	56	UU
78-87-5	1,2-Dichloropropane	56	UU
10061-01-5	cis-1,3-Dichloropropene	56	UU
79-01-6	Trichloroethene	18/2	UU
124-48-1	Dibromochloromethane	56	UU
79-00-5	1,1,2-Trichloroethane	56	UU
71-43-2	Benzene	56	UU
10061-02-6	trans-1,3-Dichloropropene	56	UU
75-25-2	Bromoform	56	UU
108-10-1	4-Methyl-2-Pentanone	18/2	UU
591-78-6	2-Hexanone	18/2	UU
127-18-4	Tetrachloroethene	3	UU
79-34-5	1,1,2,2-Tetrachloroethane	56	UU
108-88-3	Toluene	56	UU
108-90-7	Chlorobenzene	56	UU
100-41-4	Ethylbenzene	56	UU
100-42-5	Styrene	56	UU
1330-20-7	Xylene (total)	56	UU

CA  
1-9-91

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ATTACHMENT X-10

1/87 Rev.

## EPA SAMPLE NO.

1A5223

Soil - 3

**Contract:**

SAS No. :

SDG No. :

Lab Sample ID: CA5223V

Lab File ID: >D1929

Date Received: 11/03/0490

Date Analyzed: 11/09/90

Dilution Factor:

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

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1/87 Rev.

ATTACHMENT X-11

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A5224

Soil-4

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: CA5224U

Sample wt/vol: .025 (g/mL) G

Lab File ID: >D1942

Level: (low/med) MED

Date Received: 11/03/90

% Moisture: not dec. 82/

Date Analyzed: 11/10/90

Column: (pack/cap) PACK

Dilution Factor: 200 252 1-4-91

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

74-87-3	Chloromethane	2500	U
74-83-9	Bromomethane	2500	U
75-01-4	Vinyl Chloride	2500	U
75-00-3	Chloroethane	2500	U
75-09-2	Methylene Chloride	2100	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	1300	U
75-35-4	1,1-Dichloroethene	1300	U
75-34-3	1,1-Dichloroethane	1300	U
540-59-0	1,2-Dichloroethene (total)	1300	U
67-66-3	Chloroform	1300	U
107-06-2	1,2-Dichloroethane	1300	U
78-93-3	2-Butanone	2500	U
71-55-6	1,1,1-Trichloroethane	870	U
56-23-5	Carbon Tetrachloride	1300	U
108-05-4	Vinyl Acetate	2500	U
75-27-4	Bromodichloromethane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
79-01-6	Trichloroethene	11000	U
124-48-1	Dibromochloromethane	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
71-43-2	Benzene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
75-25-2	Bromoform	1300	U
108-10-1	4-Methyl-2-Pentanone	3300	U
591-78-6	2-Hexanone	2500	U
127-18-4	Tetrachloroethene	37000	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
108-88-3	Toluene	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
100-42-5	Styrene	1300	U
1330-20-7	Xylene (total)	1300	U

FORM I VOA

1/8/96 Rev.

ATTACHMENT Y-12

## EPA SAMPLE NO.

1A5224

3071 - 4

SDG No. :

Lab Sample ID: CA5224U

Lab File ID: >D1942

Date Received: 11/03/90

Date Analyzed: 11/10/90

Dilution Factor: 200.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

FORM I VOA-TIC

1/87 Rev.

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ATTACHMENT X-13



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ETZ 6004/4/91  
EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

IA5226

MW - 1

Lab Code: F2

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5226U2

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: >C1452

Level: (low/med) LOW

Date Received: 11/03/90

% Moisture: not dec.

Date Analyzed: 11/10/90

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

74-87-3	Chloromethane	10
74-83-9	Bromomethane	10
75-01-4	Vinyl Chloride	6
75-00-3	Chloroethane	10
75-09-2	Methylene Chloride	5
67-64-1	Acetone	8
75-15-0	Carbon Disulfide	5
75-35-4	1,1-Dichloroethene	5
75-34-3	1,1-Dichloroethane	5
540-59-0	1,2-Dichloroethene (total)	77
67-66-3	Chloroform	5
107-06-2	1,2-Dichloroethane	5
78-93-3	2-Butanone	10
71-55-6	1,1,1-Trichloroethane	5
56-23-5	Carbon Tetrachloride	5
108-05-4	Vinyl Acetate	10
75-27-4	Bromodichloromethane	5
78-87-5	1,2-Dichloropropane	5
10061-01-5	cis-1,3-Dichloropropene	5
79-01-6	Trichloroethene	130
124-48-1	Dibromochloromethane	5
79-00-5	1,1,2-Trichloroethane	5
71-43-2	Benzene	5
10061-02-6	trans-1,3-Dichloropropene	5
75-25-2	Bromoform	5
108-10-1	4-Methyl-2-Pentanone	10
591-78-6	2-Hexanone	10
127-18-4	Tetrachloroethene	2
79-34-5	1,1,2,2-Tetrachloroethane	5
108-88-3	Toluene	5
108-90-7	Chlorobenzene	5
100-41-4	Ethylbenzene	5
100-42-5	Styrene	5
1330-20-7	Xylene (total)	5

✓ OK

✓

✓

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ATTACHMENT

X-14

ETC 66m 1/4/9,  
EPA SAMPLE NO.

NW - 1

SDG No. :

Lab Sample ID: CA5226V2

Lab File ID: >C1452

Date Received: 11/03/90

Date Analyzed: 11/10/90

Dilution Factor: 1.0

Number TICs found: 0

(ug/L or ug/Kg) - UG/L

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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ETC *GLM 11/4/91*  
EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

A5227

MW-2

Lab Code: F2

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5227U

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: >C1441

Level: (low/med) LOW

Date Received: 11/03/90

% Moisture: not dec.

Date Analyzed: 11/09/90

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
74-87-3	-----Chloromethane	10		IU
74-83-9	-----Bromomethane	10		IU
75-01-4	-----Vinyl Chloride	10		IU
75-00-3	-----Chloroethane	10		IU
75-09-2	-----Methylene Chloride	5		IU
67-64-1	-----Acetone	10		IU
75-15-0	-----Carbon Disulfide	5		IU
75-35-4	-----1,1-Dichloroethene	5		IU
75-34-3	-----1,1-Dichloroethane	5		IU
540-59-0	-----1,2-Dichloroethene (total)	6		I
67-66-3	-----Chloroform	5		IU
107-06-2	-----1,2-Dichloroethane	5		IU
78-93-3	-----2-Butanone	10		IU
71-55-6	-----1,1,1-Trichloroethane	5		IU
56-23-5	-----Carbon Tetrachloride	5		IU
108-05-4	-----Vinyl Acetate	10		IU
75-27-4	-----Bromodichloromethane	5		IU
78-87-5	-----1,2-Dichloropropane	5		IU
10061-01-5	-----cis-1,3-Dichloropropene	5		IU
79-01-6	-----Trichloroethene	26		I
124-48-1	-----Dibromochloromethane	5		IU
79-00-5	-----1,1,2-Trichloroethane	5		IU
71-43-2	-----Benzene	5		IU
10061-02-6	-----trans-1,3-Dichloropropene	5		IU
75-25-2	-----Bromoform	5		IU
108-10-1	-----4-Methyl-2-Pentanone	10		IU
591-78-6	-----2-Hexanone	10		IU
127-18-4	-----Tetrachloroethene	18		I
79-34-5	-----1,1,2,2-Tetrachloroethane	5		IU
108-88-3	-----Toluene	5		IU
108-90-7	-----Chlorobenzene	5		IU
100-41-4	-----Ethylbenzene	5		IU
100-42-5	-----Styrene	5		IU
1330-20-7	-----Xylene (total)	5		IU

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ATTACHMENT X-16



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ETC 1/4/91  
EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

A5225

MW-3

Lab Code: F2

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5225U

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >C1439

Level: (low/med) LOW

Date Received: 11/03/90

% Moisture: not dec.

Date Analyzed: 11/09/90

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	44	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	28	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

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ATTACHMENT X-18

66m  
ETC 01/4/91  
EPA SAMPLE NO.

MW - 3

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

6  
GCM 1/4/91  
EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

A5228

FIELD BLANK

Lab Code: F2

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5228U

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: >C1442

Level: (low/med) LOW

Date Received: 11/03/90

% Moisture: not dec.

Date Analyzed: 11/09/90

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	10
74-83-9	Bromomethane	10	10
75-01-4	Vinyl Chloride	10	10
75-00-3	Chloroethane	10	10
75-09-2	Methylene Chloride	2	10
67-64-1	Acetone	11	10
75-15-0	Carbon Disulfide	5	10
75-35-4	1,1-Dichloroethene	5	10
75-34-3	1,1-Dichloroethane	5	10
540-59-0	1,2-Dichloroethene (total)	5	10
67-66-3	Chloroform	5	10
107-06-2	1,2-Dichloroethane	5	10
78-93-3	2-Butanone	10	10
71-55-6	1,1,1-Trichloroethane	5	10
56-23-5	Carbon Tetrachloride	5	10
108-05-4	Vinyl Acetate	10	10
75-27-4	Bromodichloromethane	5	10
78-87-5	1,2-Dichloropropane	5	10
10061-01-5	cis-1,3-Dichloropropene	5	10
79-01-6	Trichloroethene	5	10
124-48-1	Dibromochloromethane	5	10
79-00-5	1,1,2-Trichloroethane	5	10
71-43-2	Benzene	5	10
10061-02-6	trans-1,3-Dichloropropene	5	10
75-25-2	Bromoform	5	10
108-10-1	4-Methyl-2-Pentanone	10	10
591-78-6	2-Hexanone	10	10
127-18-4	Tetrachloroethene	5	10
79-34-5	1,1,2,2-Tetrachloroethane	5	10
108-88-3	Toluene	5	10
108-90-7	Chlorobenzene	5	10
100-41-4	Ethylbenzene	5	10
100-42-5	Styrene	5	10
1330-20-7	Xylene (total)	5	10

J12 vok

(3) 11/7/90

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ATTACHMENT X-20

ETC G6m 1/4/91  
~~EPA~~ SAMPLE NO.

॥ ३ ॥

SDG No. :

Lab Sample ID: CA5228U

Lab File ID: >C1442

Date Received: 11/03/90

Date Analyzed: 11/09/90

Dilution Factor: 1.0

CONCENTRATION UNITS:  
-(ug/L or ug/Kg) UG/L

132



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

66m/4/91  
ETC  
EPA SAMPLE NO.

A5229

FB

Lab Name: ETCNJ

Contract:

Lab Code: F2

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5229U

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >C1443

Level: (low/med) LOW

Date Received: 11/03/90

% Moisture: not dec.

Date Analyzed: 11/09/90

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	10
74-83-9	Bromomethane	10	10
75-01-4	Vinyl Chloride	10	10
75-00-3	Chloroethane	10	10
75-09-2	Methylene Chloride	13	13
67-64-1	Acetone	12	12
75-15-0	Carbon Disulfide	15	15
75-35-4	1,1-Dichloroethene	15	15
75-34-3	1,1-Dichloroethane	15	15
540-59-0	1,2-Dichloroethene (total)	15	15
67-66-3	Chloroform	15	15
107-06-2	1,2-Dichloroethane	15	15
78-93-3	2-Butanone	10	10
71-55-6	1,1,1-Trichloroethane	15	15
56-23-5	Carbon Tetrachloride	15	15
108-05-4	Vinyl Acetate	10	10
75-27-4	Bromodichloromethane	15	15
78-87-5	1,2-Dichloropropane	15	15
10061-01-5	cis-1,3-Dichloropropene	15	15
79-01-6	Trichloroethene	15	15
124-48-1	Dibromochloromethane	15	15
79-00-5	1,1,2-Trichloroethane	15	15
71-43-2	Benzene	15	15
10061-02-6	trans-1,3-Dichloropropene	15	15
75-25-2	Bromoform	15	15
108-10-1	4-Methyl-2-Pentanone	10	10
591-78-6	2-Hexanone	10	10
127-18-4	Tetrachloroethene	15	15
79-34-5	1,1,2,2-Tetrachloroethane	15	15
108-88-3	Toluene	15	15
108-90-7	Chlorobenzene	15	15
100-41-4	Ethylbenzene	15	15
100-42-5	Styrene	15	15
1330-20-7	Xylene (total)	15	15

J 137

11/17/90

137

ETC 66m 1/4/91  
EPA SAMPLE NO.

FBI

SDG No. :

Lab Sample ID: CA5229U

Lab File ID: >C1443

Date Received: 11/03/90

Date Analyzed: 11/09/90

Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) - UG/L

138

1/87 Rev.  
ATTACHMENT X-23

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ETC 6am 1/4/91  
EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

A5230

Lab Code: F2

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5230U

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >C1438

Level: (low/med) LOW

Date Received: 11/03/90

% Moisture: not dec.

Date Analyzed: 11/09/90

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

74-87-3	Chloromethane	110
74-83-9	Bromomethane	110
75-01-4	Vinyl Chloride	110
75-00-3	Chloroethane	110
75-09-2	Methylene Chloride	15
67-64-1	Acetone	19
75-15-0	Carbon Disulfide	15
75-35-4	1,1-Dichloroethene	15
75-34-3	1,1-Dichloroethane	15
540-59-0	1,2-Dichloroethene (total)	15
67-66-3	Chloroform	15
107-06-2	1,2-Dichloroethane	15
78-93-3	2-Butanone	110
71-55-6	1,1,1-Trichloroethane	15
56-23-5	Carbon Tetrachloride	15
108-05-4	Vinyl Acetate	110
75-27-4	Bromodichloromethane	15
78-87-5	1,2-Dichloropropane	15
10061-01-5	cis-1,3-Dichloropropene	15
79-01-6	Trichloroethene	15
124-48-1	Dibromochloromethane	15
79-00-5	1,1,2-Trichloroethane	15
71-43-2	Benzene	15
10061-02-6	trans-1,3-Dichloropropene	15
75-25-2	Bromoform	15
108-10-1	4-Methyl-2-Pentanone	110
591-78-6	2-Hexanone	110
127-18-4	Tetrachloroethene	15
79-34-5	1,1,2,2-Tetrachloroethane	15
108-88-3	Toluene	15
108-90-7	Chlorobenzene	15
100-41-4	Ethylbenzene	15
100-42-5	Styrene	15
1330-20-7	Xylene (total)	15

JK ✓ OK 11/17/91

43

ATTACHMENT X-24

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

TB

ETC

ANALYTICAL DATA REPORT PACKAGE  
FOR  
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
TRENTON, NEW JERSEY 08625

Case Name: PEERLESS TUBE  
Case Number: NA

Field Sample	Lab Sample #	Sample Location	Date & Time Collected
BSA11020206	CA5221	SOIL 1	11/2/90 1000
BSA11020207	CA5222	SOIL 2	11/2/90 1045
BSA11020208	CA5223	SOIL 3	11/2/90 0930
BSA11020209	CA5224	SOIL 4	11/2/90 1145
BSA11020210	CA5226	MONITORING WELL 1	11/2/90 0955
BSA11020211	CA5227	MONITORING WELL 2	11/2/90 1045
BSA11020212	CA5225	MONITORING WELL 3	11/2/90 1100
BSA11020213	CA5229	FIELD BLANK	11/2/90 0930
BSA11020214	CA5228	FIELD BLANK	11/2/90 0930
BSA11020215	CA5230	TRIP BLANK	11/2/90

ORGANICS PACKAGE  
VOLUME II OF II

Laboratory Name: ETC Corporation

NJDEP Certification Number: 12257

Laboratory QA Officer: LEE ROUDYBUSH  
(PRINT)

Laboratory QA Officer:  
(SIGNATURE)

Laboratory Manager:  
(PRINT)

Laboratory Manager:  
(SIGNATURE)

Date Submitted:

GREGORY G. MORRISON

*Gregory G. Morrison*

11/8/91

*ETC*

**SEMIVOLATILE DATA**

**SAMPLE DATA**

ATTACHMENT X-27

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETC  
EPA SAMPLE NO.

10001/1/91

Name: ETCNJ

Contract: \_\_\_\_\_

1A5221

Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: CA5221C

Sample wt/vol: 27.170 (g/mL) G

Lab File ID: >G2700

Conc: (low/med) LOW

1-4-91

Date Received: 11/03/90

Temperature: not dec. 10 dec. 20

Date Extracted: 11/14/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/05/90

Cleanup: (Y/N) XN

pH: 7.0

Dilution Factor: 10

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

108-95-2	Phenol	13700	IU
111-44-4	bis(2-Chloroethyl)ether	13700	IU
95-57-8	2-Chlorophenol	13700	IU
541-73-1	1,3-Dichlorobenzene	13700	IU
106-46-7	1,4-Dichlorobenzene	13700	IU
100-51-6	Benzyl alcohol	13700	IU
95-50-1	1,2-Dichlorobenzene	13700	IU
95-48-7	2-Methylphenol	13700	IU
108-60-1	bis(2-Chloroisopropyl)ether	13700	IU
106-44-5	4-Methylphenol	13700	IU
621-64-7	N-Nitroso-di-n-propylamine	13700	IU
67-72-1	Hexachloroethane	13700	IU
98-95-3	Nitrobenzene	13700	IU
78-59-1	Isophorone	13700	IU
88-75-5	2-Nitrophenol	13700	IU
105-67-9	2,4-Dimethylphenol	13700	IU
65-85-0	Benzoic acid	13700	IU
111-91-1	bis(2-Chloroethoxy)methane	18000	IU
120-83-2	2,4-Dichlorophenol	13700	IU
120-82-1	1,2,4-Trichlorobenzene	13700	IU
91-20-3	Naphthalene	13700	IU
106-47-8	4-Chloroaniline	13700	IU
87-68-3	Hexachlorobutadiene	13700	IU
59-50-7	4-Chloro-3-methylphenol	13700	IU
91-57-6	2-Methylnaphthalene	13700	IU
77-47-4	Hexachlorocyclopentadiene	13700	IU
88-06-2	2,4,6-Trichlorophenol	13700	IU
95-95-4	2,4,5-Trichlorophenol	18000	IU
91-58-7	2-Chloronaphthalene	13700	IU
88-74-4	2-Nitroaniline	18000	IU
131-11-3	Dimethylphthalate	13700	IU
208-96-8	Acenaphthylene	13700	IU
606-20-2	2,6-Dinitrotoluene	13700	IU

304

ATTACHMENT

X-28



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETC Cam 1/4/91

A5221

Name: ETCNJ

Contract:

Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: CA5221C

Sample wt/vol: 27.130 (g/mL) G

Lab File ID: >G2700

Level: (low/med) LOW @ 1-4-91

Date Received: 11/03/90

Moisture: not dec. 10 dec. 20

Date Extracted: 11/14/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/05/90 @ 12-91

Cleanup: (Y/N) XN pH: 7.0

Dilution Factor: 10

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

99-09-2	3-Nitroaniline	18000	IU
83-32-9	Acenaphthene	13700	IU
51-28-5	2,4-Dinitrophenol	18000	IU
100-02-7	4-Nitrophenol	18000	IU
132-64-9	Dibenzofuran	13700	IU
121-14-2	2,4-Dinitrotoluene	13700	IU
84-66-2	Diethylphthalate	13700	IU
7005-72-3	4-Chlorophenyl-phenylether	13700	IU
86-73-7	Fluorene	13700	IU
100-01-6	4-Nitroaniline	18000	IU
534-52-1	4,6-Dinitro-2-methylphenol	18000	IU
86-30-6	N-Nitrosodiphenylamine (1)	13700	IU
101-55-3	4-Bromophenyl-phenylether	13700	IU
118-74-1	Hexachlorobenzene	13700	IU
87-86-5	Pentachlorophenol	18000	IU
85-01-8	Phenanthrene	14100	I
120-12-7	Anthracene	11100	IJ
84-74-2	Di-n-butylphthalate	13700	IU
206-44-0	Fluoranthene	16400	I
129-00-0	Pyrene	15500	I
85-68-7	Butylbenzylphthalate	13700	IU
91-94-1	3,3'-Dichlorobenzidine	17400	IU
56-55-3	Benzo(a)anthracene	12800	IJ
218-01-9	Chrysene	13500	IJ
117-81-7	bis(2-Ethylhexyl)phthalate	13700	IU
117-84-0	Di-n-octylphthalate	13700	IU
205-99-2	Benzo(b)fluoranthene	15100	I
207-08-9	Benzo(k)fluoranthene	13700	IU
50-32-8	Benzo(a)pyrene	13700	IU
193-39-5	Indeno(1,2,3-cd)pyrene	13700	IU
53-70-3	Dibenz(a,h)anthracene	13700	IU
191-24-2	Benzo(g,h,i)perylene	13700	IU

(1) - Cannot be separated from Diphenylamine

305

FORM I SU -2

1/87 Rev. ATTACHMENT X-29

ETC 66m, 1/4/91

1A5221

SDG No. :

Dilution Factor:

10.0 CD  
1-4-41

CONCENTRATION UNITS:--  
(ug/L or ug/Kg) UG/KG

306  
MENT X-30

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

66m 1/4/91  
ETC  
EPA SAMPLE NO.

A5222

Name: ETCNJ

Contract: \_\_\_\_\_

Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: CA5222C

Conc: wt/Vol: 27.7 30 (g/mL) G

Lab File ID: >G2794

Level: (low/med) LOW

Date Received: 11/03/90

Disturbance: not dec. 8 dec. 0

Date Extracted: 11/13/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/12/90

Cleanup: (Y/N) YN pH: 7.0

Dilution Factor: 10

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

108-95-2	Phenol	3600	IU
111-44-4	bis(2-Chloroethyl)ether	3600	IU
95-57-8	2-Chlorophenol	3600	IU
541-73-1	1,3-Dichlorobenzene	3600	IU
106-46-7	1,4-Dichlorobenzene	3600	IU
100-51-6	Benzyl alcohol	3600	IU
95-50-1	1,2-Dichlorobenzene	3600	IU
95-48-7	2-Methylphenol	3600	IU
108-60-1	bis(2-Chloroisopropyl)ether	3600	IU
106-44-5	4-Methylphenol	3600	IU
621-64-7	N-Nitroso-di-n-propylamine	3600	IU
67-72-1	Hexachloroethane	3600	IU
98-95-3	Nitrobenzene	3600	IU
78-59-1	Isophorone	3600	IU
88-75-5	2-Nitrophenol	3600	IU
105-67-9	2,4-Dimethylphenol	3600	IU
65-85-0	Benzoic acid	18000	IU
111-91-1	bis(2-Chloroethoxy)methane	3600	IU
120-83-2	2,4-Dichlorophenol	3600	IU
120-82-1	1,2,4-Trichlorobenzene	3600	IU
91-20-3	Naphthalene	3600	IU
106-47-8	4-Chloroaniline	3600	IU
87-68-3	Hexachlorobutadiene	3600	IU
59-50-7	4-Chloro-3-methylphenol	3600	IU
91-57-6	2-Methylnaphthalene	3600	IU
77-47-4	Hexachlorocyclopentadiene	3600	IU
88-06-2	2,4,6-Trichlorophenol	3600	IU
95-95-4	2,4,5-Trichlorophenol	18000	IU
91-58-7	2-Chloronaphthalene	3600	IU
88-74-4	2-Nitroaniline	18000	IU
131-11-3	Dimethylphthalate	3600	IU
208-96-8	Acenaphthylene	3600	IU
606-20-2	2,6-Dinitrotoluene	3600	IU

321

ATTACHMENT

X-31

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETC 664/4/91  
EPA SAMPLE NO.

Name: ETCNJ

Contract:

A5222

Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Conc: wt/vol: 27.7 30 (g/mL) G

Level: (low/med) LOW 1-4-91

Stability: not dec. 8 dec. 0

Extraction: (SepF/Cont/Sonc) SONC

Cleanup: (Y/N) YN pH: 7.0

Lab Sample ID: CA5222C

Lab File ID: >G2794

Date Received: 11/03/90

Date Extracted: 11/13/90

Date Analyzed: 12/12/90

Dilution Factor: 10

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

99-09-2	3-Nitroaniline	18000	IU
83-32-9	Acenaphthene	13600	IU
51-28-5	2,4-Dinitrophenol	18000	IU
100-02-7	4-Nitrophenol	18000	IU
132-64-9	Dibenzofuran	13600	IU
121-14-2	2,4-Dinitrotoluene	13600	IU
84-66-2	Diethylphthalate	13600	IU
7005-72-3	4-Chlorophenyl-phenylether	13600	IU
86-73-7	Fluorene	13600	IU
100-01-6	4-Nitroaniline	18000	IU
534-52-1	4,6-Dinitro-2-methylphenol	18000	IU
86-30-6	N-Nitrosodiphenylamine (1)	13600	IU
101-55-3	4-Bromophenyl-phenylether	13600	IU
118-74-1	Hexachlorobenzene	13600	IU
87-86-5	Pentachlorophenol	18000	IU
85-01-8	Phenanthrene	1600	IJ
120-12-7	Anthracene	320	IJ
84-74-2	Di-n-butylphthalate	13600	IU
206-44-0	Fluoranthene	1710	IJ
129-00-0	Pyrene	1620	IJ
85-68-7	Butylbenzylphthalate	13600	IU
91-94-1	3,3'-Dichlorobenzidine	17200	IU
56-55-3	Benzo(a)anthracene	13600	IU
218-01-9	Chrysene	13600	IU
117-81-7	bis(2-Ethylhexyl)phthalate	13600	IU
117-84-0	Di-n-octylphthalate	13600	IU
205-99-2	Benzo(b)fluoranthene	13600	IU
207-08-9	Benzo(k)fluoranthene	13600	IU
50-32-8	Benzo(a)pyrene	13600	IU
193-39-5	Indeno(1,2,3-cd)pyrene	13600	IU
53-70-3	Dibenz(a,h)anthracene	13600	IU
191-24-2	Benzo(g,h,i)perylene	13600	IU

(1) - Cannot be separated from Diphenylamine.

322 1.32  
ATTACHMENT

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

664 1/4/91  
ETC  
EPA SAMPLE NO.

Name: ETCNJ

Contract: \_\_\_\_\_

A5222

Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

File wt/vol: 27.730 (g/mL) G

Lab Sample ID: CA5222C

Lab File ID: >G2794

Level: (low/med) LOW

Date Received: 11/03/90

Disturbance: not dec. 08 dec. 8

Date Extracted: 11/14/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/12/90

Cleanup: (Y/N) XN

pH: 7.0

Dilution Factor: 10-0

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER

COMPOUND NAME

RT

EST. CONC

Q

ATTACHMENT

323 X-33

18  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETC 66m 1/4/91  
EPA SAMPLE NO.

Name: ETCNJ

Contract: \_\_\_\_\_

A5223

Code: \_\_\_\_\_

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: CA5223C

Conc: wt/vol: 25.6 30 (g/mL) G

Lab File ID: >G2696

Level: (low/med) LOW *CD 1-4-91*

Date Received: 11/03/90

Temperature: not dec. 815 dec. 18

Date Extracted: 11/13/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/05/90

Cleanup: (Y/N) XN

pH: 6.0

Dilution Factor: 10

*CD 1-4-91*

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
108-95-2	Phenol	3900	IU
111-44-4	bis(2-Chloroethyl)ether	3900	IU
95-57-8	2-Chlorophenol	3900	IU
541-73-1	1,3-Dichlorobenzene	3900	IU
106-46-7	1,4-Dichlorobenzene	3900	IU
100-51-6	Benzyl alcohol	3900	IU
95-50-1	1,2-Dichlorobenzene	3900	IU
95-48-7	2-Methylphenol	3900	IU
108-60-1	bis(2-Chloroisopropyl)ether	3900	IU
106-44-5	4-Methylphenol	3900	IU
621-64-7	N-Nitroso-di-n-propylamine	3900	IU
67-72-1	Hexachloroethane	3900	IU
98-95-3	Nitrobenzene	3900	IU
78-59-1	Isophorone	3900	IU
88-75-5	2-Nitrophenol	3900	IU
105-67-9	2,4-Dimethylphenol	3900	IU
65-85-0	Benzoic acid	20000	IU
111-91-1	bis(2-Chloroethoxy)methane	3900	IU
120-83-2	2,4-Dichlorophenol	3900	IU
120-82-1	1,2,4-Trichlorobenzene	3900	IU
91-20-3	Naphthalene	3900	IU
106-47-8	4-Chloroaniline	3900	IU
87-68-3	Hexachlorobutadiene	3900	IU
59-50-7	4-Chloro-3-methylphenol	3900	IU
91-57-6	2-Methylnaphthalene	3900	IU
77-47-4	Hexachlorocyclopentadiene	3900	IU
88-06-2	2,4,6-Trichlorophenol	3900	IU
95-95-4	2,4,5-Trichlorophenol	20000	IU
91-58-7	2-Chloronaphthalene	3900	IU
88-74-4	2-Nitroaniline	20000	IU
131-11-3	Dimethylphthalate	3900	IU
208-96-8	Acenaphthylene	3900	IU
606-20-2	2,6-Dinitrotoluene	3900	IU

330

ATTACHMENT X-34

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETC 6/14/91  
EPA SAMPLE NO.

1A5223

Name: ETCNJ

Contract:

Code:

Case No.:

SAS No.:

SDG No.:

(soil/water) SOIL

Lab Sample ID: CA5223C

wt/vol: 25.6 <sup>30</sup> (g/mL) G

Lab File ID: >G2696

(low/med) LOW @ 1-4-91

Date Received: 11/03/90

ature: not dec. 8/15 dec. 15

Date Extracted: 11/14/90

action: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/05/90

Cleanup: (Y/N) XN pH: 6.0

Dilution Factor: 10

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

99-09-2	3-Nitroaniline	20000	IU
83-32-9	Acenaphthene	3900	IU
51-28-5	2,4-Dinitrophenol	20000	IU
100-02-7	4-Nitrophenol	20000	IU
132-64-9	Dibenzofuran	3900	IU
121-14-2	2,4-Dinitrotoluene	3900	IU
84-66-2	Diethylphthalate	3900	IU
7005-72-3	4-Chlorophenyl-phenylether	3900	IU
86-73-7	Fluorene	3900	IU
100-01-6	4-Nitroaniline	20000	IU
534-52-1	4,6-Dinitro-2-methylphenol	20000	IU
86-30-6	N-Nitrosodiphenylamine (1)	3900	IU
101-55-3	4-Bromophenyl-phenylether	3900	IU
118-74-1	Hexachlorobenzene	3900	IU
87-86-5	Pentachlorophenol	20000	IU
85-01-8	Phenanthrene	1500	IJ
120-12-7	Anthracene	3900	IU
84-74-2	Di-n-butylphthalate	3900	IU
206-44-0	Fluoranthene	1600	IJ
129-00-0	Pyrene	1400	IJ
85-68-7	Butylbenzylphthalate	3900	IU
91-94-1	3,3'-Dichlorobenzidine	17800	IU
56-55-3	Benzo(a)anthracene	1750	IJ
218-01-9	Chrysene	1900	IJ
117-81-7	bis(2-Ethylhexyl)phthalate	3900	IU
117-84-0	Di-n-octylphthalate	3900	IU
205-99-2	Benzo(b)fluoranthene	1300	IJ
207-08-9	Benzo(k)fluoranthene	3900	IU
50-32-8	Benzo(a)pyrene	3900	IU
193-39-5	Indeno(1,2,3-cd)pyrene	3900	IU
53-70-3	Dibenz(a,h)anthracene	3900	IU
191-24-2	Benzo(g,h,i)perylene	3900	IU

(1) - Cannot be separated from Diphenylamine

ETC 66m 1/4/91  
EPA SAMPLE NO.

Contract:

1A5223

Case No. : \_\_\_\_\_

SAS No. :

SDG No.:

Lab Sample ID: CA5223C

wt/vol: 30.1 (g/mL) G

Lab File ID: >G2696

Date Received: 11/03/90

Posture: not dec. 15                      dec. 0

Date Extracted: 11/14<sup>3</sup>/90

Section: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/05/90

Cleanup: (Y/N) *XN* pH: 6.0

Dilution Factor: 10.0

CD  
1-4-41

Number TICs found: 3

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

332



1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETC 66m 1/4/91  
EPA SAMPLE NO.

Name: ETCNJ

Contract: \_\_\_\_\_

A5224

Code:

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Media: (soil/water) SOIL

Lab Sample ID: CA5224C

Conc: wt/vol: 23.739 (g/mL) G

Lab File ID: >G2699

Level: (low/med) LOW

Date Received: 11/03/90

Temperature: not dec. 821 dec. 21

Date Extracted: 11/14/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/05/90

Cleanup: (Y/N) Y

pH: 7.0

Dilution Factor: 10

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

108-95-2	Phenol	4200	IU
111-44-4	bis(2-Chloroethyl)ether	4200	IU
95-57-8	2-Chlorophenol	4200	IU
541-73-1	1,3-Dichlorobenzene	4200	IU
106-46-7	1,4-Dichlorobenzene	4200	IU
100-51-6	Benzyl alcohol	4200	IU
95-50-1	1,2-Dichlorobenzene	4200	IU
95-48-7	2-Methylphenol	4200	IU
108-60-1	bis(2-Chloroisopropyl)ether	4200	IU
106-44-5	4-Methylphenol	4200	IU
621-64-7	N-Nitroso-di-n-propylamine	4200	IU
67-72-1	Hexachloroethane	4200	IU
98-95-3	Nitrobenzene	4200	IU
78-59-1	Isophorone	4200	IU
88-75-5	2-Nitrophenol	4200	IU
105-67-9	2,4-Dimethylphenol	4200	IU
65-85-0	Benzoic acid	21000	IU
111-91-1	bis(2-Chloroethoxy)methane	4200	IU
120-83-2	2,4-Dichlorophenol	4200	IU
120-82-1	1,2,4-Trichlorobenzene	4200	IU
91-20-3	Naphthalene	4200	IU
106-47-8	4-Chloroaniline	4200	IU
87-68-3	Hexachlorobutadiene	4200	IU
59-50-7	4-Chloro-3-methylphenol	4200	IU
91-57-6	2-Methylnaphthalene	4200	IU
77-47-4	Hexachlorocyclopentadiene	4200	IU
88-06-2	2,4,6-Trichlorophenol	4200	IU
95-95-4	2,4,5-Trichlorophenol	21000	IU
91-58-7	2-Chloronaphthalene	4200	IU
88-74-4	2-Nitroaniline	21000	IU
131-11-3	Dimethylphthalate	4200	IU
208-96-8	Acenaphthylene	4200	IU
606-20-2	2,6-Dinitrotoluene	4200	IU

343

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETC 66m 1/4/91  
EPA SAMPLE NO.

ETCNJ

Contract:

A5224

Case No.:

SAS No.:

SDG No.:

(soil/water) SOIL

Lab Sample ID: CA5224C

wt/vol: 23.7 30 (g/mL) G

Lab File ID: >G2699

(low/med) LOW @ 1-4-91

Date Received: 11/03/90

ure: not dec. 8a/ dec. 21

Date Extracted: 11/14/90

ion: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/05/90

anup: (Y/N) Y pH: 7.0

Dilution Factor: 10

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

99-09-2-----	3-Nitroaniline	21000	IU
83-32-9-----	Acenaphthene	4200	IU
51-28-5-----	2,4-Dinitrophenol	21000	IU
100-02-7-----	4-Nitrophenol	21000	IU
132-64-9-----	Dibenzofuran	4200	IU
121-14-2-----	2,4-Dinitrotoluene	4200	IU
84-66-2-----	Diethylphthalate	4200	IU
7005-72-3-----	4-Chlorophenyl-phenylether	4200	IU
86-73-7-----	Fluorene	4200	IU
100-01-6-----	4-Nitroaniline	21000	IU
534-52-1-----	4,6-Dinitro-2-methylphenol	21000	IU
86-30-6-----	N-Nitrosodiphenylamine (1)	4200	IU
101-55-3-----	4-Bromophenyl-phenylether	4200	IU
118-74-1-----	Hexachlorobenzene	4200	IU
87-86-5-----	Pentachlorophenol	21000	IU
85-01-8-----	Phenanthrene	4200	IU
120-12-7-----	Anthracene	4200	IU
84-74-2-----	Di-n-butylphthalate	4200	IU
206-44-0-----	Fluoranthene	4200	IU
129-00-0-----	Pyrene	4200	IU
85-68-7-----	Butylbenzylphthalate	4200	IU
91-94-1-----	3,3'-Dichlorobenzidine	8400	IU
56-55-3-----	Benzo(a)anthracene	4200	IU
218-01-9-----	Chrysene	4200	IU
117-81-7-----	bis(2-Ethylhexyl)phthalate	4200	IU
117-84-0-----	Di-n-octylphthalate	4200	IU
205-99-2-----	Benzo(b)fluoranthene	4200	IU
207-08-9-----	Benzo(k)fluoranthene	4200	IU
50-32-8-----	Benzo(a)pyrene	4200	IU
193-39-5-----	Indeno(1,2,3-cd)pyrene	4200	IU
53-70-3-----	Dibenz(a,h)anthracene	4200	IU
191-24-2-----	Benzo(g,h,i)perylene	4200	IU

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ETCNJ

Contract:

Case No.: \_\_\_\_\_

SAS No. :

SDG No. :

(soil/water) SOIL

Lab Sample ID: CA5224C

wt/vol: 30.0 (g/mL) G

Lab File ID: >G2699

(low/med) LOW

Date Received: 11/03/90

ture: not dec. 21      dec. 0

Date Extracted: 11/14/90

tion: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/05/90

Sanup: (Y/N) *YN* pH: *7.0*

Dilution Factor: 10.0 (a)  
14-91

TICs found: 2

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

ATTACHMENT N-39

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETC 11/14/91  
EPA SAMPLE NO.

Sample: ETCNJ

Contract: \_\_\_\_\_

A5225

Media:

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

(soil/water) WATER

Lab Sample ID: CA5225C

wt/vol: 990.0

(g/mL) ML

Lab File ID: >P3174

(low/med) LOW

Date Received: 11/08/90 6am 12/13/90

Temperature: not dec.

dec.

Date Extracted: 11/08/90

Extraction: (SepF/Cont/Sonc)

CONT

Date Analyzed: 11/13/90

Cleanup: (Y/N) N

pH: 2.8 @ 1-9-91

Dilution Factor: 1

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

108-95-2	Phenol	10	
111-44-4	bis(2-Chloroethyl)ether	10	IU
95-57-8	2-Chlorophenol	10	IU
541-73-1	1,3-Dichlorobenzene	10	IU
106-46-7	1,4-Dichlorobenzene	10	IU
100-51-6	Benzyl alcohol	10	IU
95-50-1	1,2-Dichlorobenzene	10	IU
95-48-7	2-Methylphenol	10	IU
108-60-1	bis(2-Chloroisopropyl)ether	10	IU
106-44-5	4-Methylphenol	10	IU
621-64-7	N-Nitroso-di-n-propylamine	10	IU
67-72-1	Hexachloroethane	10	IU
98-95-3	Nitrobenzene	10	IU
78-59-1	Isophorone	10	IU
88-75-5	2-Nitrophenol	10	IU
105-67-9	2,4-Dimethylphenol	10	IU
65-85-0	Benzoic acid	10	IU
111-91-1	bis(2-Chloroethoxy)methane	51	IU
120-83-2	2,4-Dichlorophenol	10	IU
120-82-1	1,2,4-Trichlorobenzene	10	IU
91-20-3	Naphthalene	10	IU
106-47-8	4-Chloroaniline	10	IU
87-68-3	Hexachlorobutadiene	10	IU
59-50-7	4-Chloro-3-methylphenol	10	IU
91-57-6	2-Methylnaphthalene	10	IU
77-47-4	Hexachlorocyclopentadiene	10	IU
88-06-2	2,4,6-Trichlorophenol	10	IU
95-95-4	2,4,5-Trichlorophenol	10	IU
91-58-7	2-Chloronaphthalene	51	IU
88-74-4	2-Nitroaniline	10	IU
131-11-3	Dimethylphthalate	51	IU
208-96-8	Acenaphthylene	10	IU
606-20-2	2,6-Dinitrotoluene	10	IU

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETC 60m 1/4/91

ETCNJ

Contract:

A5225

Case No.:

SAS No.:

SDG No.:

(soil/water) WATER

Lab Sample ID: CA5225C

wt/vol: 990.0

(g/mL) ML

Lab File ID: &gt;P3174

(low/med) LOW

Date Received: 11/03/90

ure: not dec.

dec.

Date Extracted: 11/08/90

ion: (SepF/Cont/Sonc)

CONT

Date Analyzed: 11/13/90

anup: (Y/N) N

pH: 7.8 @ 1-9-91

Dilution Factor: 1

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

99-09-2	3-Nitroaniline	151	IU
83-32-9	Acenaphthene	110	IU
51-28-5	2,4-Dinitrophenol	151	IU
100-02-7	4-Nitrophenol	151	IU
132-64-9	Dibenzofuran	110	IU
121-14-2	2,4-Dinitrotoluene	110	IU
84-66-2	Diethylphthalate	110	IU
7005-72-3	4-Chlorophenyl-phenylether	110	IU
86-73-7	Fluorene	110	IU
100-01-6	4-Nitroaniline	151	IU
534-52-1	4,6-Dinitro-2-methylphenol	151	IU
86-30-6	N-Nitrosodiphenylamine (1)	110	IU
101-55-3	4-Bromophenyl-phenylether	110	IU
118-74-1	Hexachlorobenzene	110	IU
87-86-5	Pentachlorophenol	151	IU
85-01-8	Phenanthrene	110	IU
120-12-7	Anthracene	110	IU
84-74-2	Di-n-butylphthalate	110	IU
206-44-0	Fluoranthene	110	IU
129-00-0	Pyrene	110	IU
85-68-7	Butylbenzylphthalate	110	IU
91-94-1	3,3'-Dichlorobenzidine	120	IU
56-55-3	Benzo(a)anthracene	110	IU
218-01-9	Chrysene	110	IU
117-81-7	bis(2-Ethylhexyl)phthalate	110	IU
117-84-0	Di-n-octylphthalate	110	IU
205-99-2	Benzo(b)fluoranthene	110	IU
207-08-9	Benzo(k)fluoranthene	110	IU
50-32-8	Benzo(a)pyrene	110	IU
193-39-5	Indeno(1,2,3-cd)pyrene	110	IU
53-70-3	Dibenz(a,h)anthracene	110	IU
191-24-2	Benzo(g,h,i)perylene	110	IU

(1) - Cannot be separated from Diphenylamine

~~EPA~~ SAMPLE NO.  
ETC 6666 1/4/91

1A5225 .

SDG No. :

Lab Sample ID: CA5225C

Lab File ID: >P3174

Date Received: 11/03/90

Date Extracted: 11/12/90 <sup>08</sup> (4) (14-9)

Date Analyzed: 11/13/90

Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

[illegible]

352  
ATTACHMENT X-42

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETC *10/14/91*

1A5226

Sample: ETCNJ

Contract: \_\_\_\_\_

Site:

Case No.:

SAS No.:

SDG No.:

(soil/water) WATER

Lab Sample ID: CA5226C

wt/Vol: 800.0

(g/mL) ML

Lab File ID: >P3178

(low/med) LOW

Date Received: 11/03/90

Temperature: not dec.

dec.

Date Extracted: 11/08/90

Extraction: (SepF/Cont/Sonc)

CONT

Date Analyzed: 11/13/90

Cleanup: (Y/N) N

pH: 7.8 *1-9-91*

Dilution Factor: 1

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

108-95-2	Phenol	13	IU
111-44-4	bis(2-Chloroethyl)ether	13	IU
95-57-8	2-Chlorophenol	13	IU
541-73-1	1,3-Dichlorobenzene	13	IU
106-46-7	1,4-Dichlorobenzene	13	IU
100-51-6	Benzyl alcohol	13	IU
95-50-1	1,2-Dichlorobenzene	13	IU
95-48-7	2-Methylphenol	13	IU
108-60-1	bis(2-Chloroisopropyl)ether	13	IU
106-44-5	4-Methylphenol	13	IU
621-64-7	N-Nitroso-di-n-propylamine	13	IU
67-72-1	Hexachloroethane	13	IU
98-95-3	Nitrobenzene	13	IU
78-59-1	Isophorone	13	IU
88-75-5	2-Nitrophenol	13	IU
105-67-9	2,4-Dimethylphenol	13	IU
65-85-0	Benzoic acid	63	IU
111-91-1	bis(2-Chloroethoxy)methane	13	IU
120-83-2	2,4-Dichlorophenol	13	IU
120-82-1	1,2,4-Trichlorobenzene	13	IU
91-20-3	Naphthalene	13	IU
106-47-8	4-Chloroaniline	13	IU
87-68-3	Hexachlorobutadiene	13	IU
59-50-7	4-Chloro-3-methylphenol	13	IU
91-57-6	2-Methylnaphthalene	13	IU
77-47-4	Hexachlorocyclopentadiene	13	IU
88-06-2	2,4,6-Trichlorophenol	13	IU
95-95-4	2,4,5-Trichlorophenol	63	IU
91-58-7	2-Chloronaphthalene	13	IU
88-74-4	2-Nitroaniline	63	IU
131-11-3	Dimethylphthalate	13	IU
208-96-8	Acenaphthylene	13	IU
606-20-2	2,6-Dinitrotoluene	13	IU

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC 66M 1/4/91

1A5226

Site: ETCNJ

Contract:

Site:

Case No.:

SAS No.:

SDG No.:

(soil/water) WATER

Lab Sample ID: CA5226C

wt/vol: 800.0

(g/mL) ML

Lab File ID: >P3178

(low/med) LOW

Date Received: 11/03/90

Texture: not dec.

dec.

Date Extracted: 11/08/90

Extraction: (SepF/Cont/Sonc)

CONT

Date Analyzed: 11/13/90

Cleanup: (Y/N) N

pH: 7.0

CA  
1-9-91

Dilution Factor:

1

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

99-09-2-----	3-Nitroaniline	13	IU
83-32-9-----	Acenaphthene	13	IU
51-28-5-----	2,4-Dinitrophenol	13	IU
100-02-7-----	4-Nitrophenol	13	IU
132-64-9-----	Dibenzofuran	13	IU
121-14-2-----	2,4-Dinitrotoluene	13	IU
84-66-2-----	Diethylphthalate	13	IU
7005-72-3-----	4-Chlorophenyl-phenylether	13	IU
86-73-7-----	Fluorene	13	IU
100-01-6-----	4-Nitroaniline	13	IU
534-52-1-----	4,6-Dinitro-2-methylphenol	13	IU
86-30-6-----	N-Nitrosodiphenylamine (1)	13	IU
101-55-3-----	4-Bromophenyl-phenylether	13	IU
118-74-1-----	Hexachlorobenzene	13	IU
87-86-5-----	Pentachlorophenol	13	IU
85-01-8-----	Phenanthrene	13	IU
120-12-7-----	Anthracene	13	IU
84-74-2-----	Di-n-butylphthalate	13	IU
206-44-0-----	Fluoranthene	13	IU
129-00-0-----	Pyrene	13	IU
85-68-7-----	Butylbenzylphthalate	13	IU
91-94-1-----	3,3'-Dichlorobenzidine	25	IU
56-55-3-----	Benzo(a)anthracene	13	IU
218-01-9-----	Chrysene	13	IU
117-81-7-----	bis(2-Ethylhexyl)phthalate	13	IU
117-84-0-----	Di-n-octylphthalate	13	IU
205-99-2-----	Benzo(b)fluoranthene	13	IU
207-08-9-----	Benzo(k)fluoranthene	13	IU
50-32-8-----	Benzo(a)pyrene	13	IU
193-39-5-----	Indeno(1,2,3-cd)pyrene	13	IU
53-70-3-----	Dibenz(a,h)anthracene	13	IU
191-24-2-----	Benzo(g,h,i)perylene	13	IU

(1) - Cannot be separated from Diphenylamine



~~EPA~~ SAMPLE NO.  
ETC 66M 1/4/91

1A5226

SDG No.:

Lab Sample ID: CA5226C

Lab File ID: >P3178

Date Received: 11/03/90

Date Extracted: 11/12<sup>08</sup>/90

Date Analyzed: 11/13/90

Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

359

18  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETC 60m 1/4/91  
EPA SAMPLE NO.

Site: ETCNJ

Contract: \_\_\_\_\_

A5227

Use:

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

(soil/water) WATER

Lab Sample ID: CA5227C

wt/Vol: 690.0

(g/mL) ML

Lab File ID: >G2498

(low/med) LOW

Date Received: 11/03/90

Pure: not dec.

dec.

Date Extracted: 11/12/90

Extraction: (SepF/Cont/Sonc)

CONT

Date Analyzed: 11/22/90

Recovery: (Y/N) Y/N

pH: 7.0

Dilution Factor: \_\_\_\_\_

1

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

108-95-2	Phenol	14	IU
111-44-4	bis(2-Chloroethyl)ether	14	IU
95-57-8	2-Chlorophenol	14	IU
541-73-1	1,3-Dichlorobenzene	14	IU
106-46-7	1,4-Dichlorobenzene	14	IU
100-51-6	Benzyl alcohol	14	IU
95-50-1	1,2-Dichlorobenzene	14	IU
95-48-7	2-Methylphenol	14	IU
108-60-1	bis(2-Chloroisopropyl)ether	14	IU
106-44-5	4-Methylphenol	14	IU
621-64-7	N-Nitroso-di-n-propylamine	14	IU
67-72-1	Hexachloroethane	14	IU
98-95-3	Nitrobenzene	14	IU
78-59-1	Isophorone	14	IU
88-75-5	2-Nitrophenol	14	IU
105-67-9	2,4-Dimethylphenol	14	IU
65-85-0	Benzoic acid	72	IU
111-91-1	bis(2-Chloroethoxy)methane	14	IU
120-83-2	2,4-Dichlorophenol	14	IU
120-82-1	1,2,4-Trichlorobenzene	14	IU
91-20-3	Naphthalene	14	IU
106-47-8	4-Chloroaniline	14	IU
87-68-3	Hexachlorobutadiene	14	IU
59-50-7	4-Chloro-3-methylphenol	14	IU
91-57-6	2-Methylnaphthalene	14	IU
77-47-4	Hexachlorocyclopentadiene	14	IU
88-06-2	2,4,6-Trichlorophenol	14	IU
95-95-4	2,4,5-Trichlorophenol	72	IU
91-58-7	2-Chloronaphthalene	14	IU
88-74-4	2-Nitroaniline	72	IU
131-11-3	Dimethylphthalate	14	IU
208-96-8	Acenaphthylene	14	IU
606-20-2	2,6-Dinitrotoluene	14	IU

366

ATTACHMENT

X-46

# 1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
*dem 1/4/91*

Site: ETCNJ

Contract:

IA5227

Case No.:

SAS No.:

SDG No.:

(soil/water) WATER

Lab Sample ID: CA5227C

wt/vol: 690.0

(g/mL) ML

Lab File ID: >G2498

(low/med) LOW

Date Received: 11/03/90

ture: not dec.

dec.

Date Extracted: 11/12/90 <sup>08</sup> *CA 1-4-91*

tion: (SepF/Cont/Sonc) CONT

Date Analyzed: 11/22/90

leanup: (Y/N) YN

pH: 7.0

Dilution Factor:

1

CAS NO. --

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

99-09-2	3-Nitroaniline	172	IU
83-32-9	Acenaphthene	114	IU
51-28-5	2,4-Dinitrophenol	172	IU
100-02-7	4-Nitrophenol	172	IU
132-64-9	Dibenzofuran	114	IU
121-14-2	2,4-Dinitrotoluene	114	IU
84-66-2	Diethylphthalate	114	IU
7005-72-3	4-Chlorophenyl-phenylether	114	IU
86-73-7	Fluorene	114	IU
100-01-6	4-Nitroaniline	172	IU
534-52-1	4,6-Dinitro-2-methylphenol	172	IU
86-30-6	N-Nitrosodiphenylamine (1)	114	IU
101-55-3	4-Bromophenyl-phenylether	114	IU
118-74-1	Hexachlorobenzene	114	IU
87-86-5	Pentachlorophenol	172	IU
85-01-8	Phenanthrene	114	IU
120-12-7	Anthracene	114	IU
84-74-2	Di-n-butylphthalate	114	IU
206-44-0	Fluoranthene	114	IU
129-00-0	Pyrene	114	IU
85-68-7	Butylbenzylphthalate	114	IU
91-94-1	3,3'-Dichlorobenzidine	129	IU
56-55-3	Benzo(a)anthracene	114	IU
218-01-9	Chrysene	114	IU
117-81-7	bis(2-Ethylhexyl)phthalate	114	IU
117-84-0	Di-n-octylphthalate	114	IU
205-99-2	Benzo(b)fluoranthene	114	IU
207-08-9	Benzo(k)fluoranthene	114	IU
50-32-8	Benzo(a)pyrene	114	IU
193-39-5	Indeno(1,2,3-cd)pyrene	114	IU
53-70-3	Dibenz(a,h)anthracene	114	IU
191-24-2	Benzo(g,h,i)perylene	114	IU

(1) - Cannot be separated from Diphenylamine

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ATTACHMENT X-47

EPA SAMPLE NO.  
ETC 66m 1/4/91

**Contract:**

1A5227

Case No. : \_\_\_\_\_

SAS No.:

SDG No.:

Lab Sample ID: CA5227C

wt/vol: 690.0 (g/mL) ML

Lab File ID: >G2498

(low/med) LOW

Date Received: 11/03/90

ture: not dec.

dec.

Date Extracted: 11/12<sup>08</sup>/90

etion: (SepF/Cont/Sonc) CONT

Date Analyzed: 11/22/90

cleanup: (Y/N) ~~Y~~N

pH:

Dilution Factor: 1.0

Ref. TICs found: 10

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

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1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETC Gam 1/4/91

Site: ETCNJ

Contract: \_\_\_\_\_

A5228

Site:

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

(soil/water) WATER

Lab Sample ID: CA5228C

wt/vol: 990.0

(g/mL) ML

Lab File ID: >P3180

(low/med) LOW

Date Received: 11/03/90

ture: not dec.

dec.

Date Extracted: 11/08/90

tion: (SepF/Cont/Sonc)

CONT

Date Analyzed: 11/13/90

leanup: (Y/N) N

pH: 7.0 @  
1-9-91

Dilution Factor: 1

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

108-95-2	Phenol	10	IU
111-44-4	bis(2-Chloroethyl)ether	10	IU
95-57-8	2-Chlorophenol	10	IU
541-73-1	1,3-Dichlorobenzene	10	IU
106-46-7	1,4-Dichlorobenzene	10	IU
100-51-6	Benzyl alcohol	10	IU
95-50-1	1,2-Dichlorobenzene	10	IU
95-48-7	2-Methylphenol	10	IU
108-60-1	bis(2-Chloroisopropyl)ether	10	IU
106-44-5	4-Methylphenol	10	IU
621-64-7	N-Nitroso-di-n-propylamine	10	IU
67-72-1	Hexachloroethane	10	IU
98-95-3	Nitrobenzene	10	IU
78-59-1	Isophorone	10	IU
88-75-5	2-Nitrophenol	10	IU
105-67-9	2,4-Dimethylphenol	10	IU
65-85-0	Benzoic acid	51	IU
111-91-1	bis(2-Chloroethoxy)methane	10	IU
120-83-2	2,4-Dichlorophenol	10	IU
120-82-1	1,2,4-Trichlorobenzene	10	IU
91-20-3	Naphthalene	10	IU
106-47-8	4-Chloroaniline	10	IU
87-68-3	Hexachlorobutadiene	10	IU
59-50-7	4-Chloro-3-methylphenol	10	IU
91-57-6	2-Methylnaphthalene	10	IU
77-47-4	Hexachlorocyclopentadiene	10	IU
88-06-2	2,4,6-Trichlorophenol	10	IU
95-95-4	2,4,5-Trichlorophenol	51	IU
91-58-7	2-Chloronaphthalene	10	IU
88-74-4	2-Nitroaniline	51	IU
131-11-3	Dimethylphthalate	10	IU
208-96-8	Acenaphthylene	10	IU
606-20-2	2,6-Dinitrotoluene	10	IU

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC 666m 1/4/91

ETCNJ

Contract:

A5228

Case No.:

Case No.:

SAS No.:

SDG No.:

(soil/water) WATER

Lab Sample ID: CA5228C

wt/vol: 990.0

(g/mL) ML

Lab File ID: >P3180

(low/med) LOW

Date Received: 11/03/90

ure: not dec.

dec.

Date Extracted: 11/08/90

ion: (SepF/Cont/Sonc)

CONT

Date Analyzed: 11/13/90

anup: (Y/N) N

pH: 7.8 @

Dilution Factor: 1

1-9-91

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

99-09-2-----	3-Nitroaniline	151	IU
83-32-9-----	Acenaphthene	110	IU
51-28-5-----	2,4-Dinitrophenol	151	IU
100-02-7-----	4-Nitrophenol	151	IU
132-64-9-----	Dibenzofuran	110	IU
121-14-2-----	2,4-Dinitrotoluene	110	IU
84-66-2-----	Diethylphthalate	110	IU
7005-72-3-----	4-Chlorophenyl-phenylether	110	IU
86-73-7-----	Fluorene	110	IU
100-01-6-----	4-Nitroaniline	151	IU
534-52-1-----	4,6-Dinitro-2-methylphenol	151	IU
86-30-6-----	N-Nitrosodiphenylamine (1)	110	IU
101-55-3-----	4-Bromophenyl-phenylether	110	IU
118-74-1-----	Hexachlorobenzene	110	IU
87-86-5-----	Pentachlorophenol	151	IU
85-01-8-----	Phenanthrene	110	IU
120-12-7-----	Anthracene	110	IU
84-74-2-----	Di-n-butylphthalate	110	IU
206-44-0-----	Fluoranthene	110	IU
129-00-0-----	Pyrene	110	IU
85-68-7-----	Butylbenzylphthalate	110	IU
91-94-1-----	3,3'-Dichlorobenzidine	120	IU
56-55-3-----	Benzo(a)anthracene	110	IU
218-01-9-----	Chrysene	110	IU
117-81-7-----	bis(2-Ethylhexyl)phthalate	110	IU
117-84-0-----	Di-n-octylphthalate	110	IU
205-99-2-----	Benzo(b)fluoranthene	110	IU
207-08-9-----	Benzo(k)fluoranthene	110	IU
50-32-8-----	Benzo(a)pyrene	110	IU
193-39-5-----	Indeno(1,2,3-cd)pyrene	110	IU
53-70-3-----	Dibenz(a,h)anthracene	110	IU
191-24-2-----	Benzo(g,h,i)perylene	110	IU

(i) - Cannot be separated from Diphenylamine

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ATTACHMENT X-50

ETC 66m 1/4/91

ATTACHMENT XI-5

18  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC 66M 14/91

ETCNJ

Contract: \_\_\_\_\_

A5229

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

(soil/water) WATER

Lab Sample ID: CA5229C

wt/vol: 980.0

(g/mL) ML

Lab File ID: >P3181

(low/med) LOW

Date Received: 11/03/90

ure: not dec.

dec.

Date Extracted: 11/08/90

on: (SepF/Cont/Sonc)

CONT

Date Analyzed: 11/13/90

anup: (Y/N) N

pH: 7.8 <sup>1-9-91</sup>

Dilution Factor: 1

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

108-95-2	Phenol	10	IU
111-44-4	bis(2-Chloroethyl)ether	10	IU
95-57-8	2-Chlorophenol	10	IU
541-73-1	1,3-Dichlorobenzene	10	IU
106-46-7	1,4-Dichlorobenzene	10	IU
100-51-6	Benzyl alcohol	10	IU
95-50-1	1,2-Dichlorobenzene	10	IU
95-48-7	2-Methylphenol	10	IU
108-60-1	bis(2-Chloroisopropyl)ether	10	IU
106-44-5	4-Methylphenol	10	IU
621-64-7	N-Nitroso-di-n-propylamine	10	IU
67-72-1	Hexachloroethane	10	IU
98-95-3	Nitrobenzene	10	IU
78-59-1	Isophorone	10	IU
88-75-5	2-Nitrophenol	10	IU
105-67-9	2,4-Dimethylphenol	10	IU
65-85-0	Benzoic acid	51	IU
111-91-1	bis(2-Chloroethoxy)methane	10	IU
120-83-2	2,4-Dichlorophenol	10	IU
120-82-1	1,2,4-Trichlorobenzene	10	IU
91-20-3	Naphthalene	10	IU
106-47-8	4-Chloroaniline	10	IU
87-68-3	Hexachlorobutadiene	10	IU
59-50-7	4-Chloro-3-methylphenol	10	IU
91-57-6	2-Methylnaphthalene	10	IU
77-47-4	Hexachlorocyclopentadiene	10	IU
88-06-2	2,4,6-Trichlorophenol	10	IU
95-95-4	2,4,5-Trichlorophenol	51	IU
91-58-7	2-Chloronaphthalene	10	IU
88-74-4	2-Nitroaniline	51	IU
131-11-3	Dimethylphthalate	10	IU
208-96-8	Acenaphthylene	10	IU
606-20-2	2,6-Dinitrotoluene	10	IU



SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ETC SAMPLE NO.  
ETC 610m 1/4/91  
A5229

ETCNI

Contract:

Case No.:

SAS No.:

SDG No.:

(soil/water) WATER

Lab Sample ID: CA5229C

g/vol: 980.0

(g/mL) ML

Lab File ID: >P3181

(low/med) LOW

Date Received: 11/03/90

ure: not dec.

dec.

Date Extracted: 11/08/90

ion: (SepF/Cont/Sonc)

CONT

Date Analyzed: 11/13/90

anup: (Y/N) N

pH:

7.0 @  
1.9-1/

Dilution Factor:

1

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

99-09-2-----	3-Nitroaniline	51	IU
83-32-9-----	Acenaphthene	10	IU
51-28-5-----	2,4-Dinitrophenol	51	IU
100-02-7-----	4-Nitrophenol	51	IU
132-64-9-----	Dibenzofuran	10	IU
121-14-2-----	2,4-Dinitrotoluene	10	IU
84-66-2-----	Diethylphthalate	10	IU
7005-72-3-----	4-Chlorophenyl-phenylether	10	IU
86-73-7-----	Fluorene	10	IU
100-01-6-----	4-Nitroaniline	51	IU
534-52-1-----	4,6-Dinitro-2-methylphenol	51	IU
86-30-6-----	N-Nitrosodiphenylamine (1)	10	IU
101-55-3-----	4-Bromophenyl-phenylether	10	IU
118-74-1-----	Hexachlorobenzene	10	IU
87-86-5-----	Pentachlorophenol	51	IU
85-01-8-----	Phenanthrene	10	IU
120-12-7-----	Anthracene	10	IU
84-74-2-----	Di-n-butylphthalate	10	IU
206-44-0-----	Fluoranthene	10	IU
129-00-0-----	Pyrene	10	IU
85-68-7-----	Butylbenzylphthalate	10	IU
91-94-1-----	3,3'-Dichlorobenzidine	20	IU
56-55-3-----	Benzo(a)anthracene	10	IU
218-01-9-----	Chrysene	10	IU
117-81-7-----	bis(2-Ethylhexyl)phthalate	27	IU
117-84-0-----	Di-n-octylphthalate	10	IU
205-99-2-----	Benzo(b)fluoranthene	10	IU
207-08-9-----	Benzo(k)fluoranthene	10	IU
50-32-8-----	Benzo(a)pyrene	10	IU
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	IU
53-70-3-----	Dibenz(a,h)anthracene	10	IU
191-24-2-----	Benzo(g,h,i)perylene	10	IU

(1) - Cannot be separated from Diphenylamine

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ATTACHMENT X-53

ETC 66m 1/4/9

**Contract:**

SDG No. :

Dilution Factor: 1.0

**FRATICS found: 3**

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*ETC*

PESTICIDE/PCB DATA

*ETC*

**SAMPLE DATA**

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC JBK 1/14/90

ETC/EDISON

Contract: \_\_\_\_\_

CA5221

ETCEDIS

Case No.: 70327

SAS No.: \_\_\_\_\_

SDG No.: 00370

(soil/water) SOIL

wt/vol: 30.0 (g/mL) G

Lab Sample ID: CA5221

Lab File ID: KA254

(low/med) LOW

Date Received: 11/03/90

ure: not dec. 10

dec. \_\_\_\_\_

Date Extracted: 11/13/90

ion: (SepF/Cont/Sonc)

SONC

Date Analyzed: 12/11/90

anup: (Y/N) N

pH: 7.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

319-84-6	alpha-BHC	8.9	U
319-85-7	beta-BHC	8.9	U
319-86-8	delta-BHC	8.9	U
58-89-9	Lindane	8.9	U
76-44-8	Heptachlor	8.9	U
309-00-2	Aldrin	8.9	U
1024-57-3	Heptachlor epoxide	8.9	U
959-98-8	Endosulfan I	8.9	U
60-57-1	Dieldrin	8.9	U
72-55-9	4,4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4'-DDD	18	U
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	18	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	89	U
5103-71-9	alpha-Chlordane	18	U
5103-74-2	gamma-Chlordane	89	U
8001-35-2	Toxaphene	89	U
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	89	U
53469-21-9	Aroclor-1242	89	U
12672-29-6	Aroclor-1248	89	U
11097-69-1	Aroclor-1254	89	U
11096-82-5	Aroclor-1260	180	U
		180	U

FORM I PEST

ATTACHMENT X-57

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1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC JPK 1/14/91

CA5222

ETC/EDISON

Contract: \_\_\_\_\_

ETCEDIS

Case No.: 70327

SAS No.: \_\_\_\_\_

SDG No.: 00370

(soil/water) SOIL

Lab Sample ID: CA5222

/vol: 30.0 (g/mL) G

Lab File ID: KA255

(low/med) LOW

Date Received: 11/03/90

re: not dec. 8 dec. \_\_\_\_\_

Date Extracted: 11/13/90

on: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/11/90

anup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

319-84-6-----alpha-BHC	8.7	U
319-85-7-----beta-BHC	8.7	U
319-86-8-----delta-BHC	8.7	U
58-89-9-----Lindane	8.7	U
76-44-8-----Heptachlor	8.7	U
309-00-2-----Aldrin	8.7	U
1024-57-3-----Heptachlor epoxide	8.7	U
959-98-8-----Endosulfan I	8.7	U
60-57-1-----Dieldrin	17	U
72-55-9-----4,4'-DDE	17	U
72-20-8-----Endrin	17	U
33213-65-9-----Endosulfan II	17	U
72-54-8-----4,4'-DDD	17	U
1031-07-8-----Endosulfan sulfate	17	U
50-29-3-----4,4'-DDT	17	U
72-43-5-----Methoxychlor	87	U
53494-70-5-----Endrin ketone	17	U
5103-71-9-----alpha-Chlordane	87	U
5103-74-2-----gamma-Chlordane	87	U
8001-35-2-----Toxaphene	170	U
12674-11-2-----Aroclor-1016	87	U
11104-28-2-----Aroclor-1221	87	U
11141-16-5-----Aroclor-1232	87	U
53469-21-9-----Aroclor-1242	87	U
12672-29-6-----Aroclor-1248	87	U
11097-69-1-----Aroclor-1254	170	U
11096-82-5-----Aroclor-1260	170	U

ATTACHMENT X-58

561

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC-JBK 1/14/91

Site: ETC/EDISON

Contract: \_\_\_\_\_

CA5223

Site: ETCEDIS

Case No.: 70327

SAS No.: \_\_\_\_\_

SDG No.: 00370

(soil/water) SOIL

Lab Sample ID: CA5223

wt/vol: 30.0 (g/mL) G

Lab File ID: KA256

(low/med) LOW

Date Received: 11/03/90

ture: not dec. 15 dec. \_\_\_\_\_

Date Extracted: 11/13/90

tion: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/11/90

leanup: (Y/N) N pH: 6.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

319-84-6-----	alpha-BHC	9.4	U
319-85-7-----	beta-BHC	9.4	U
319-86-8-----	delta-BHC	9.4	U
58-89-9-----	Lindane	9.4	U
76-44-8-----	Heptachlor	9.4	U
309-00-2-----	Aldrin	9.4	U
1024-57-3-----	Heptachlor epoxide	9.4	U
959-98-8-----	Endosulfan I	9.4	U
60-57-1-----	Dieldrin	9.4	U
72-55-9-----	4,4'-DDE	19	U
72-20-8-----	Endrin	19	U
33213-65-9-----	Endosulfan II	19	U
72-54-8-----	4,4'-DDD	19	U
1031-07-8-----	Endosulfan sulfate	19	U
50-29-3-----	4,4'-DDT	19	U
72-43-5-----	Methoxychlor	19	U
53494-70-5-----	Endrin ketone	94	U
5103-71-9-----	alpha-Chlordane	19	U
5103-74-2-----	gamma-Chlordane	94	U
8001-35-2-----	Toxaphene	94	U
12674-11-2-----	Aroclor-1016	190	U
11104-28-2-----	Aroclor-1221	94	U
11141-16-5-----	Aroclor-1232	94	U
53469-21-9-----	Aroclor-1242	94	U
12672-29-6-----	Aroclor-1248	94	U
11097-69-1-----	Aroclor-1254	94	U
11096-82-5-----	Aroclor-1260	190	U
		190	U

ATTACHMENT X-59

564

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC BK 1/14/91

ETC/EDISON

Contract: \_\_\_\_\_

CA5224

ETCEDIS

Case No.: 70327

SAS No.: \_\_\_\_\_

SDG No.: 00370

(soil/water) SOIL

Lab Sample ID: CA5224

wt/vol: 30.0 (g/mL) G

Lab File ID: KA257

(low/med) LOW

Date Received: 11/03/90

ure: not dec. 21 dec. \_\_\_\_\_

Date Extracted: 11/13/90

ion: (SepF/Cont/Sonc) SONC

Date Analyzed: 12/11/90

anup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Q

319-84-6	alpha-BHC	10	U
319-85-7	beta-BHC	10	U
319-86-8	delta-BHC	10	U
58-89-9	Lindane	10	U
76-44-8	Heptachlor	10	U
309-00-2	Aldrin	10	U
1024-57-3	Heptachlor epoxide	10	U
959-98-8	Endosulfan I	10	U
60-57-1	Dieldrin	10	U
72-55-9	4,4'-DDE	20	U
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	20	U
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	20	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	100	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	100	U
8001-35-2	Toxaphene	100	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	200	U
		200	U

ATTACHMENT X-60



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC JPK 11/14/91

CA5225

ETC/EDISON

Contract: \_\_\_\_\_

ETCEDIS

Case No.: 70326

SAS No.: \_\_\_\_\_

SDG No.: 70326

(soil/water) WATER

Lab Sample ID: CA5225

Conc/vol: 980.0 (g/mL) ML

Lab File ID: KA794

(low/med) LOW

Date Received: 11/03/90

Pre: not dec. \_\_\_\_\_ dec. \_\_\_\_\_

Date Extracted: 11/08/90

Ion: (SepF/Cont/Sonc) CONT

Date Analyzed: 11/22/90

Setup: (Y/N) N pH: \_\_\_\_\_

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

319-84-6-----	alpha-BHC	0.051	U
319-85-7-----	beta-BHC	0.051	U
319-86-8-----	delta-BHC	0.051	U
58-89-9-----	Lindane	0.051	U
76-44-8-----	Heptachlor	0.051	U
309-00-2-----	Aldrin	0.051	U
1024-57-3-----	Heptachlor epoxide	0.051	U
959-98-8-----	Endosulfan I	0.051	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.51	U
53494-70-5-----	Endrin ketone	0.10	U
5103-71-9-----	alpha-Chlordane	0.51	U
5103-74-2-----	gamma-Chlordane	0.51	U
8001-35-2-----	Toxaphene	1.0	U
12674-11-2-----	Aroclor-1016	0.51	U
11104-28-2-----	Aroclor-1221	0.51	U
11141-16-5-----	Aroclor-1232	0.51	U
53469-21-9-----	Aroclor-1242	0.51	U
12672-29-6-----	Aroclor-1248	0.51	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

ATTACHMENT X-6/

570

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC-JBK 1/14/91

CA5226

Site: ETC/EDISON

Contract: \_\_\_\_\_

Site: ETCEDIS Case No.: 70326

SAS No.: \_\_\_\_\_

SDG No.: 70326

(soil/water) WATER

Lab Sample ID: CA5226

wt/vol: 990.0 (g/mL) ML

Lab File ID: KA795

(low/med) LOW

Date Received: 11/03/90

Pre: not dec. \_\_\_\_\_ dec. \_\_\_\_\_

Date Extracted: 11/08/90

Con: (SepF/Cont/Sonc) CONT

Date Analyzed: 11/22/90

Canup: (Y/N) N pH: \_\_\_\_\_

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	Lindane	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
5103-71-9-----	alpha-Chlordane	0.50	U
5103-74-2-----	gamma-Chlordane	0.50	U
8001-35-2-----	Toxaphene	1.0	U
12674-11-2-----	Aroclor-1016	0.50	U
11104-28-2-----	Aroclor-1221	0.50	U
11141-16-5-----	Aroclor-1232	0.50	U
53469-21-9-----	Aroclor-1242	0.50	U
12672-29-6-----	Aroclor-1248	0.50	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

DOCUMENT X-62

573

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC-ABK 11/4/91

ETC/EDISON

Contract: \_\_\_\_\_

CA5227

ETCEDIS

Case No.: 70326

SAS No.: \_\_\_\_\_

SDG No.: 70326

(soil/water) WATER

Lab Sample ID: CA5227

wt/vol: 730.0 (g/mL) ML

Lab File ID: KA796

(low/med) LOW

Date Received: 11/03/90

ure: not dec. \_\_\_\_\_ dec. \_\_\_\_\_

Date Extracted: 11/08/90

ion: (SepF/Cont/Sonc) CONT

Date Analyzed: 11/22/90

anup: (Y/N) N pH: \_\_\_\_\_

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

319-84-6-----	alpha-BHC	0.068	U
319-85-7-----	beta-BHC	0.068	U
319-86-8-----	delta-BHC	0.068	U
58-89-9-----	Lindane	0.068	U
76-44-8-----	Heptachlor	0.068	U
309-00-2-----	Aldrin	0.068	U
1024-57-3-----	Heptachlor epoxide	0.068	U
959-98-8-----	Endosulfan I	0.068	U
60-57-1-----	Dieldrin	0.068	U
72-55-9-----	4,4'-DDE	0.14	U
72-20-8-----	Endrin	0.14	U
33213-65-9-----	Endosulfan II	0.14	U
72-54-8-----	4,4'-DDD	0.14	U
1031-07-8-----	Endosulfan sulfate	0.14	U
50-29-3-----	4,4'-DDT	0.14	U
72-43-5-----	Methoxychlor	0.14	U
53494-70-5-----	Endrin ketone	0.68	U
5103-71-9-----	alpha-Chlordane	0.14	U
5103-74-2-----	gamma-Chlordane	0.68	U
8001-35-2-----	Toxaphene	0.68	U
12674-11-2-----	Aroclor-1016	1.4	U
11104-28-2-----	Aroclor-1221	0.68	U
11141-16-5-----	Aroclor-1232	0.68	U
53469-21-9-----	Aroclor-1242	0.68	U
12672-29-6-----	Aroclor-1248	0.68	U
11097-69-1-----	Aroclor-1254	0.68	U
11096-82-5-----	Aroclor-1260	1.4	U
		1.4	U

ATTACHMENT X-63

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC ~~208~~ 114191

CA5228

ETC/EDISON

Contract: \_\_\_\_\_

ETCEDIS

Case No.: 70326

SAS No.: \_\_\_\_\_

SDG No.: 70326

(soil/water) WATER

Lab Sample ID: CA5228

wt/vol: 980.0 (g/mL) ML

Lab File ID: KA797

(low/med) LOW

Date Received: 11/03/90

ure: not dec. \_\_\_\_\_ dec. \_\_\_\_\_

Date Extracted: 11/08/90

ion: (SepF/Cont/Sonc) CONT

Date Analyzed: 11/22/90

anup: (Y/N) N pH: \_\_\_\_\_

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

319-84-6-----	alpha-BHC	0.051	U
319-85-7-----	beta-BHC	0.051	U
319-86-8-----	delta-BHC	0.051	U
58-89-9-----	Lindane	0.051	U
76-44-8-----	Heptachlor	0.051	U
309-00-2-----	Aldrin	0.051	U
1024-57-3-----	Heptachlor epoxide	0.051	U
959-98-8-----	Endosulfan I	0.051	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.51	U
53494-70-5-----	Endrin ketone	0.10	U
5103-71-9-----	alpha-Chlordane	0.51	U
5103-74-2-----	gamma-Chlordane	0.51	U
8001-35-2-----	Toxaphene	1.0	U
12674-11-2-----	Aroclor-1016	0.51	U
11104-28-2-----	Aroclor-1221	0.51	U
11141-16-5-----	Aroclor-1232	0.51	U
53469-21-9-----	Aroclor-1242	0.51	U
12672-29-6-----	Aroclor-1248	0.51	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

ATTACHMENT X-64

579

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.  
ETC JPK 11/4/91

Name: ETC/EDISON

Contract: \_\_\_\_\_

CA5229

Code: ETCEDIS Case No.: 70326

SAS No.: \_\_\_\_\_

SDG No.: 70326

Matrix: (soil/water) WATER

Lab Sample ID: CA5229

Weight/vol: 1000 (g/mL) ML

Lab File ID: KA799

Conc: (low/med) LOW

Date Received: 11/03/90

Moisture: not dec. \_\_\_\_\_ dec. \_\_\_\_\_

Date Extracted: 11/08/90

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 11/22/90

Cleanup: (Y/N) N pH: \_\_\_\_\_

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	Lindane	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.050	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.10	U
53494-70-5-----	Endrin ketone	0.50	U
5103-71-9-----	alpha-Chlordane	0.10	U
5103-74-2-----	gamma-Chlordane	0.50	U
8001-35-2-----	Toxaphene	0.50	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	0.50	U
11141-16-5-----	Aroclor-1232	0.50	U
53469-21-9-----	Aroclor-1242	0.50	U
12672-29-6-----	Aroclor-1248	0.50	U
11097-69-1-----	Aroclor-1254	0.50	U
11096-82-5-----	Aroclor-1260	1.0	U
		1.0	U

ATTACHMENT Y-65

**ETC**

ANALYTICAL DATA REPORT PACKAGE  
FOR  
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
TRENTON, NEW JERSEY 08625

Case Name: PEERLESS TUBE  
Case Number: NA

<u>Field Sample</u>	<u>Lab Sample #</u>	<u>Sample Location</u>	<u>Date &amp; Time Collected</u>
BSA11020206	CA5221	SOIL 1	11/2/90 1000
BSA11020207	CA5222	SOIL 2	11/2/90 1045
BSA11020208	CA5223	SOIL 3	11/2/90 0930
BSA11020209	CA5224	SOIL 4	11/2/90 1145

INORGANICS PACKAGE

Laboratory Name: ETC Corporation

NJDEP Certification Number: 12257

Laboratory QA Officer: LEE ROUDYBUSH  
(PRINT)

Laboratory QA Officer:  
(SIGNATURE)

Laboratory Manager:  
(PRINT)

Laboratory Manager:  
(SIGNATURE)

Date Submitted:

LEE ROUDYBUSH

GREGORY G. MORRISON

Gregory G. Morrison

11/8/91

ATTACHMENT X-66

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ETC

LABELLING CODES FOR ICP ANALYSIS

CBBLK	-	Calibration Verification blank
SXBLK	-	Standard Blank
SASI514A	-	Standard 1
SBSI514B	-	Standard 2
SCSI514C	-	Standard 3
CSSI514E	-	Standard 4
CSSI514D	-	Standard 5
DW	-	Rinsewater
CSMIDCHK	-	Initial/Continuing Calibration Verification Solution
CSX85INT	-	Interference Check Sample
CSLABCON/CSLABCN2	-	Laboratory Control Sample
RSQXXXXX	-	Method Blank
KKIFBPX	-	Method Blank Spike
RSXXXXXX	-	Sample
KSIFBPX	-	Matrix Spike
QSXXXXXX	-	Duplicate Sample
DSXXXXXX	-	Serial Dilution

LABELLING CODES FOR FLAME AA ANALYSIS

SXBLK	-	Standard Blank
SASI121A	-	Standard 1
SBSI121B	-	Standard 2
SCSI121C	-	Standard 3
SMSI121E	-	Standard 4
SDSI121D	-	Standard 5
CSBLK/CBBLK	-	Calibration Verification Blank
CSFFLMCON	-	Initial/Continuing Calibration Verification Solution
RSQXXXXX	-	Method Blank
KKIFBPX	-	Method Blank Spike
RSQXXXXXX	-	Dilution of Method Blank (used for spike recovery determination)
RSXXXXXX	-	Sample
KSIFBPX	-	Matrix Spike
RSXXXXXD	-	Dilution of Matrix Spiked Sample (used for spike recovery determination)
QSXXXXXX	-	Duplicate Sample



# ETC

## LABELLING CODES FOR GRAPHITE FURNACE AA ANALYSIS

BLANK	-	Standard Blank
STANDARD 1	-	STD 1
STANDARD 2	-	STD 2
STANDARD 3	-	STD 3
STANDARD 4	-	STD 4
CSBLK/CBBLK	-	Calibration/Verification Blank
CSSTRCON	-	Initial/Continuing Calibration Verification Solution
CSFNLAB/CSFNLAB2	-	Laboratory Control Sample
RSQXXXXX	-	Method Blank
KKIFBPX	-	Method Blank Spike
RSXXXXXX	-	Sample
KSIFBPX	-	Matrix Spike
QSXXXXXX	-	Duplicate Sample

## LABELLING CODES FOR MERCURY ANALYSIS

QC-EPA	-	Initial Calibration Verification Solution
BLK	-	Blank
CONTROL	-	Continuing Calibration Verification Solution
QXXX -1,2	-	Method Blank in Duplicate
-A1	-	Method Blank Spike
XXXXXX-1,2	-	Sample in Duplicate
-A1	-	Matrix Spike

## KEYS TO ETC REPORTING

ND	-	Concentration Below IDL
BMDL	-	Concentration Greater than IDL but less than MDL

## CLP DATA QUALIFIERS

E	-	Indicates the reported value is estimated due to the presence of interference.
S	-	Indicates the reported value was determined by Method of Standard Additions (MSA).
N	-	Indicates spiked sample recovery is not within control limits.
*	-	Indicates duplicate analysis is not within control limits.

*ETC*

**CASE NARRATIVE**

ETC

SDG NARRATIVE

This technical report submitted by ETC Corporation contains the analytical results and required deliverables for NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF FISCAL SUPPORT SERVICES Site DEPPTTSK4 (PEERLESS TUBE) samples as identified below:

<u>ETC ID</u>	<u>CLIENT ID</u>	<u>ETC ID</u>	<u>CLIENT ID</u>
CA5221	S-1	CA5223	S-3
CA5222	S-2	CA5224	S-4

During the preparation and analysis of these samples, the following was observed:

METALS:- (QM70208): Problems were not observed during the preparation and analysis of these samples.

CYANIDES: (QW70325): Problems were not observed during the preparation and analysis of these samples.

*ETC*

**METALS ANALYSIS DATA**

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

S-1

SDG No.: M208S

Matrix (soil/water): SOIL

Lab Sample ID: CA5221

Level (low/med): LOW

Date Received: 11/03/90

% Solids: 89.8

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	7020.0	-	P	-
7440-36-0	Antimony	4.5	U	P	N
7440-38-2	Arsenic	7.7	-	F	-
7440-39-3	Barium	76.5	-	P	-
7440-41-7	Beryllium	.2	B	P	-
7440-43-9	Cadmium	1.9	-	P	-
7440-70-2	Calcium	9590.0	-	P	-
7440-47-3	Chromium	23.5	-	P	-
7440-48-4	Cobalt	4.4	B	P	-
7440-50-8	Copper	142.0	-	P	-
7439-89-6	Iron	13500.0	-	P	-
7439-92-1	Lead	260.0	-	P	-
7439-95-4	Magnesium	2400.0	-	P	-
7439-96-5	Manganese	304.0	-	P	-
7439-97-6	Mercury	2.0	-	C	-
7440-02-0	Nickel	29.9	-	P	-
7440-09-7	Potassium	500.0	B	P	N
7782-49-4	Selenium	.6	U	F	-
7440-22-4	Silver	1.2	U	P	-
7440-23-5	Sodium	104.0	B	P	-
7440-28-0	Thallium	.4	U	F	-
7440-62-2	Vanadium	52.8	-	P	-
7440-66-6	Zinc	277.0	-	P	-
	Cyanide	.6	-	P	N

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-2

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M208S

Matrix (soil/water): SOIL

Lab Sample ID: CA5222

Level (low/med): LOW

Date Received: 11/03/90

% Solids: 91.2

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	19200.0	-	P	-
7440-36-0	Antimony	4.5	U	P	N
7440-38-2	Arsenic	8.0	-	F	-
7440-39-3	Barium	167.0	-	P	-
7440-41-7	Beryllium	1.4	-	P	-
7440-43-9	Cadmium	4.7	-	P	-
7440-70-2	Calcium	66400.0	-	P	-
7440-47-3	Chromium	182.0	-	P	-
7440-48-4	Cobalt	5.6	B	P	-
7440-50-8	Copper	1080.0	-	P	-
7439-89-6	Iron	20000.0	-	P	-
7439-92-1	Lead	563.0	-	P	-
7439-95-4	Magnesium	19600.0	-	P	-
7439-96-5	Manganese	1190.0	-	P	-
7439-97-6	Mercury	3.5	-	CN	-
7440-02-0	Nickel	169.0	-	P	-
7440-09-7	Potassium	901.0	B	P	N
7782-49-4	Selenium	1.3	-	F	-
7440-22-4	Silver	7.1	-	P	-
7440-23-5	Sodium	572.0	B	P	-
7440-28-0	Thallium	.4	B	F	-
7440-62-2	Vanadium	45.4	-	P	-
7440-66-6	Zinc	633.0	-	P	-
	Cyanide	.4	B	AS	N

2-A  
11/3/91

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-3

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M208S

Matrix (soil/water): SOIL

Lab Sample ID: CA5223

Level (low/med): LOW

Date Received: 11/03/90

% Solids: 84.2

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	9840.0		P	
7440-36-0	Antimony	4.5	U	P	N
7440-38-2	Arsenic	5.3		F	
7440-39-3	Barium	88.1		P	
7440-41-7	Beryllium	.3	B	P	
7440-43-9	Cadmium	3.9		P	
7440-70-2	Calcium	3230.0		P	
7440-47-3	Chromium	248.0		P	
7440-48-4	Cobalt	8.9	B	P	
7440-50-8	Copper	916.0		P	
7439-89-6	Iron	34800.0		P	
7439-92-1	Lead	354.0		P	
7439-95-4	Magnesium	1940.0		P	
7439-96-5	Manganese	536.0		P	
7439-97-6	Mercury	.2		CV	
7440-02-0	Nickel	235.0		P	
7440-09-7	Potassium	615.0	B	P	N
7782-49-4	Selenium	.6	U	F	
7440-22-4	Silver	4.1		P	
7440-23-5	Sodium	123.0	B	P	
7440-28-0	Thallium	1.0	B	F	
7440-62-2	Vanadium	28.4		P	
7440-66-6	Zinc	609.0		P	
	Cyanide	.5	B	AS	N

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

S-4

SDG No.: M208S

Matrix (soil/water): SOIL

Level (low/med): LOW

Lab Sample ID: CA5224

Date Received: 11/03/90

% Solids: 78.7

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	9240.0	-	P	-
7440-36-0	Antimony	4.5	U	P	N
7440-38-2	Arsenic	6.1	-	F	-
7440-39-3	Barium	163.0	-	P	-
7440-41-7	Beryllium	.3	B	P	-
7440-43-9	Cadmium	7.3	-	P	-
7440-70-2	Calcium	3190.0	-	P	-
7440-47-3	Chromium	461.0	-	P	-
7440-48-4	Cobalt	8.7	B	P	-
7440-50-8	Copper	1120.0	-	P	-
7439-89-6	Iron	29400.0	-	P	-
7439-92-1	Lead	1030.0	-	P	-
7439-95-4	Magnesium	1660.0	-	P	-
7439-96-5	Manganese	467.0	-	P	-
7439-97-6	Mercury	.7	-	CN	-
7440-02-0	Nickel	422.0	-	P	-
7440-09-7	Potassium	580.0	B	P	N
7782-49-4	Selenium	.6	U	F	-
7440-22-4	Silver	7.9	-	P	-
7440-23-5	Sodium	75.6	B	P	-
7440-28-0	Thallium	1.3	B	F	W
7440-62-2	Vanadium	25.1	-	P	-
7440-66-6	Zinc	1130.0	-	P	-
	Cyanide	.7	-	AS	N

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



ETC

ANALYTICAL DATA REPORT PACKAGE  
FOR  
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
TRENTON, NEW JERSEY 08625

Case Name: PEERLESS TUBE  
Case Number: NA

<u>Field Sample</u>	<u>Lab Sample #</u>	<u>Sample Location</u>	<u>Date &amp; Time Collected</u>
BSA11020210	CA5226	MONITORING WELL 1	11/2/90 0955
BSA11020211	CA5227	MONITORING WELL 2	11/2/90 1045
BSA11020212	CA5225	MONITORING WELL 3	11/2/90 1100
BSA11020213	CA5229	FIELD BLANK	11/2/90 0930
BSA11020214	CA5228	FIELD BLANK	11/2/90 0930

INORGANICS PACKAGE

Laboratory Name: ETC Corporation

NJDEP Certification Number: 12257

Laboratory QA Officer: LEE ROUDYBUSH  
(PRINT)

Laboratory QA Officer: Lee R. Roudybush 1/15/91  
(SIGNATURE)

Laboratory Manager: GREGORY G. MORRISON  
(PRINT)

Laboratory Manager: Gregory G. Morrison  
(SIGNATURE)

Date Submitted: 1/8/91

ATTACHMENT X-77

**ETC**

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ETC

SDG NARRATIVE

This technical report submitted by ETC Corporation contains the analytical results and required deliverables for NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF FISCAL SUPPORT SERVICES Site DEPPTTSK4 (PEERLESS TUBE) samples as identified below:

<u>ETC ID</u>	<u>CLIENT ID</u>	<u>ETC ID</u>	<u>CLIENT ID</u>
CA5225	MW-3	CA5228	FB2
CA5226	MW-1	CA5229	FB1
CA5227	FB1		

During the preparation and analysis of these samples, the following was observed:

METALS: (OW70209): The estimated values for Copper and Potassium are due to the ICP serial dilution not within control limits.

CYANIDES: (OW70325): Problems were not observed during the preparation and analysis of these samples.

*ETC*

**METALS ANALYSIS DATA**

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

FB-1

SDG No.: M209W

Matrix (soil/water): WATER

Lab Sample ID: CA5229

Level (low/med): LOW

Date Received: 11/03/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	37.1	B	P	
7440-36-0	Antimony	22.3	U	P	
7440-38-2	Arsenic	1.1	U	F	
7440-39-3	Barium	1.1	U	P	
7440-41-7	Beryllium	.2	U	P	
7440-43-9	Cadmium	1.0	U	P	
7440-70-2	Calcium	85.8	B	P	
7440-47-3	Chromium	4.3	U	P	
7440-48-4	Cobalt	4.1	U	P	
7440-50-8	Copper	4.9	U	P	
7439-89-6	Iron	25.8	B	P	
7439-92-1	Lead	2.0	U	F	
7439-95-4	Magnesium	25.7	U	P	W
7439-96-5	Manganese	1.2	U	P	
7439-97-6	Mercury	.1	U	CV	
7440-02-0	Nickel	9.9	U	P	
7440-09-7	Potassium	135.0	U	P	
7782-49-4	Selenium	3.2	U	F	
7440-22-4	Silver	5.8	U	P	
7440-23-5	Sodium	70.0	U	P	
7440-28-0	Thallium	10.2		F	
7440-62-2	Vanadium	4.7	U	P	
7440-66-6	Zinc	6.8	B	P	
* 7440-66-6	Cyanide	2.9	B	AS	

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

\* The value of the sample is 2.9 ug/L - AT the IdL 2.2 - 12/13/90.

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

FB-2

SDG No.: M209W

Matrix (soil/water): WATER

Lab Sample ID: CA5228

Level (low/med): LOW

Date Received: 11/03/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	93.2	B	P	
7440-36-0	Antimony	22.3	U	P	
7440-38-2	Arsenic	1.1	U	F	
7440-39-3	Barium	1.1	U	P	
7440-41-7	Beryllium	.2	U	P	
7440-43-9	Cadmium	1.0	U	P	
7440-70-2	Calcium	108.0	B	P	
7440-47-3	Chromium	4.3	U	P	
7440-48-4	Cobalt	4.1	U	P	
7440-50-8	Copper	4.9	U	P	
7439-89-6	Iron	66.7	B	P	
7439-92-1	Lead	2.0	U	F	
7439-95-4	Magnesium	25.7	U	P	
7439-96-5	Manganese	1.2	U	P	
7439-97-6	Mercury	.1	U	CY	
7440-02-0	Nickel	9.9	U	P	
7440-09-7	Potassium	135.0	U	P	
7782-49-4	Selenium	3.2	U	F	
7440-22-4	Silver	5.8	U	P	
7440-23-5	Sodium	70.0	U	P	
7440-28-0	Thallium	1.9	U	F	
7440-62-2	Vanadium	4.7	U	P	
7440-66-6	Zinc	7.6	B	P	
	Cyanide	3.9	B	AS	

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

MW-2

SDG No.: M209W

Matrix (soil/water): WATER

Lab Sample ID: CA5227

Level (low/med): LOW

Date Received: 11/03/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	217000.0		P	
7440-36-0	Antimony	22.3	U	P	
7440-38-2	Arsenic	18.1		F	
7440-39-3	Barium	2100.0		P	
7440-41-7	Beryllium	15.3		P	
7440-43-9	Cadmium	31.0		P	
7440-70-2	Calcium	188000.0		P	
7440-47-3	Chromium	432.0		P	
7440-48-4	Cobalt	180.0		P	
7440-50-8	Copper	742.0		P	
7439-89-6	Iron	402000.0		P	
7439-92-1	Lead	276.0		P	
7439-95-4	Magnesium	76600.0		P	
7439-96-5	Manganese	18900.0		P	
7439-97-6	Mercury	.2	B	CN	
7440-02-0	Nickel	386.0		P	
7440-09-7	Potassium	23400.0		P	
7782-49-4	Selenium	3.2	U	F	W
7440-22-4	Silver	18.7		P	
7440-23-5	Sodium	46200.0		P	
7440-28-0	Thallium	3.4	B	F	W
7440-62-2	Vanadium	463.0		P	
7440-66-6	Zinc	846.0		P	
	Cyanide	5.0	B	AS	

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP.

Lab Code:

Case No.:

Contract:

SAS No.:

MW-1

SDG No.: M209W

Matrix (soil/water): WATER

Level (low/med): LOW

Lab Sample ID: CA5226

Date Received: 11/03/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	9720.0		P	
7440-36-0	Antimony	22.3	U	P	
7440-38-2	Arsenic	4.2	B	F	
7440-39-3	Barium	228.0		P	
7440-41-7	Beryllium	.2	U	P	
7440-43-9	Cadmium	25.5		P	
7440-70-2	Calcium	87400.0		P	
7440-47-3	Chromium	15.0		P	
7440-48-4	Cobalt	4.7	B	P	
7440-50-8	Copper	58.9		P	
7439-89-6	Iron	14300.0		P	
7439-92-1	Lead	327.0		P	
7439-95-4	Magnesium	7730.0		P	
7439-96-5	Manganese	1910.0		P	
7439-97-6	Mercury	.1	U	P	
7440-02-0	Nickel	13.9	B	P	
7440-09-7	Potassium	3200.0	B	P	
7782-49-4	Selenium	3.2	U	F	W
7440-22-4	Silver	5.8	U	P	
7440-23-5	Sodium	15700.0		P	
7440-28-0	Thallium	4.1	B	F	
7440-62-2	Vanadium	19.5	B	P	
7440-66-6	Zinc	534.0		P	
	Cyanide	3.8	B	P	

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_



1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: ETC CORP.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: M209W

Matrix (soil/water): WATER

Lab Sample ID: CA5225

Level (low/med): LOW

Date Received: 11/03/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	18700.0		P	
7440-36-0	Antimony	22.3	U	P	
7440-38-2	Arsenic	14.1		F	
7440-39-3	Barium	497.0		P	
7440-41-7	Beryllium	.9	B	P	
7440-43-9	Cadmium	4.1	B	P	
7440-70-2	Calcium	107000.0		P	
7440-47-3	Chromium	38.3		P	
7440-48-4	Cobalt	12.5	B	P	
7440-50-8	Copper	94.2		P	
7439-89-6	Iron	31200.0		P	
7439-92-1	Lead	40.1		F	
7439-95-4	Magnesium	12000.0		P	
7439-96-5	Manganese	1090.0		P	
7439-97-6	Mercury	1.8		CV	
7440-02-0	Nickel	29.9	B	P	
7440-09-7	Potassium	6020.0		P	
7782-49-4	Selenium	60.3		F	
7440-22-4	Silver	6.0	B	P	
7440-23-5	Sodium	4900.0	B	P	
7440-28-0	Thallium	1.9	U	F	
7440-62-2	Vanadium	55.6		P	
7440-66-6	Zinc	161.0		P	
	Cyanide	3.5	B	AS	

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

ATTACHMENT Y



208 WELSH POOL ROAD  
PICKERING CREEK INDUSTRIAL PARK  
LIONVILLE, PA 19341-1313  
PHONE: (215) 524-7360  
TELEX: 83-5348

**QUALITY ASSURANCE REVIEW  
PEERLESS TUBE**

**February 27, 1991**

**PREPARED FOR  
NJDEP  
DIVISION OF HAZARDOUS SITE MITIGATION  
401 EAST STATE STREET  
TRENTON, NJ 08625-0413**

**PREPARED BY  
WESTON ANALYTICAL LABORATORY  
A DIVISION OF  
ROY F. WESTON, INC.**



NJDEP  
PEERLESS TUBE

INTRODUCTION

This quality assurance review is based upon a review of all data generated from four soil samples, three water samples, two field blanks, and one trip blank collected on 11/02/90. The samples were analyzed according to criteria set forth in the Contract Laboratory Program (CLP) Method for TCL Volatile, Semivolatile and Pesticide/PCB target compounds.

This review has been performed in accordance with the confirmation method. The reported analytical results are presented as a summary of the data in Section 2. All of the analytical data were examined to determine the usability of the analytical results and also to determine the contractual compliance relative to the analytical requirements and deliverables specified for NJDEP-CLP method. The applicable qualifier codes have been placed next to the results in the data summary to assess the qualitative and/or quantitative reliability of any results. Details of this evaluation review are presented in the narrative section of this report under each specific function.

All data have been validated with regard to usability according to the quality assurance guidelines set forth in the Standard Operating Procedure for the completion of the Data Validation Report Forms and preparation of the final data validation report issued on 04-16-90 (SOP No.: 5.A.4, 5.A.3). If you have any questions or comments on this data review, please call Zohreh Hamid or Kelly M. Spittler at (215) 524-6100.

QUALITY ASSURANCE REVIEW

The analysis of the samples was performed by ETC, Corporation.

The findings offered in this report are based upon a rigorous review of holding times, blank analysis results, surrogate, spike and standard recoveries, GC/MS tuning, target compound confirmation quality, calibration system performance, peak results, and mass spectra quality.

The laboratory reported the date received as 11-03-90 throughout the data package. The receipt date on the chains-of-custody is 11-05-90. The validation forms are based on the received date of 11-05-90. The laboratory should correct this inconsistency.

Overall, the data quality was satisfactory and all are accepted with the applied qualifier codes.



QA ORGANIC DATA REVIEW  
NJDEP  
PEERLESS TUBE  
PAGE 3 OF 9

## EVALUATION BY FRACTION

### I. Volatiles

☐ Holding Time  
☐ Surrogate Recovery  
☒ MS/MSD  
☒ Blank  
☐ GC/MS Tuning  
☒ Initial Calibration  
☒ Continuing Calibration  
☐ Compound ID (HSL, TIC)  
☐ Standards  
☐ Spectra Quality  
☐ Chromatography  
☒ Data Completeness

### OVERVIEW

This portion of the case consisted of four soil samples, three water samples, two field blanks, and one trip blank. These samples were analyzed for volatile target compounds within the holding time specified by NJDEP.

All surrogate recovery, internal standard area, and calibration data met the criteria.

### ISSUES

The method blanks contained common contaminants methylene chloride and acetone at levels less than 3x the CRQL. The field blank and trip blank contained similar contamination. The reported results in the samples are qualified accordingly.

The RRF for 2-butanone was below the 0.05 QC limit in all initial and continuing calibrations. All quantitation limits for this compound are rejected.

Several %RSD and/or %D were greater than the 30% and 25% QC limits in the initial and continuing calibrations. All associated positive results are qualified estimated and flagged "J" in the target and non-target analyte summary.

The trichloroethene matrix spike/spike duplicate recoveries in sample A5221 were below QC limits. This compound was detected in



QA ORGANIC DATA REVIEW  
NJDEP  
PEERLESS TUBE  
PAGE 4 OF 9

the original sample analysis. The sample result may be biased low; however, no qualification is applied. The medium soil and water matrix spike recoveries were within QC limits

Up to three compounds were reported as tentatively identified compounds in the samples. The blanks also contained TIC contamination. Blank VBLK01 (Medium-level) contained carbon dioxide, sample A5224 and A5222 also contained this compound. These results are considered estimated due to the associated blank contamination.

Sample CA5222 was originally analyzed at a 50-fold dilution; however, the level of trichloroethene exceeded the calibration range. The sample was reanalyzed at medium level and 100-fold dilution and the trichloroethene result was within range. The medium level result is to be used for this compound only since other positive results may be biased low at this level.

The "EPA Sample No" column on the Form V needed to be completed on pages 56, 57, 58, 59, 62, and 63. The laboratory has been contacted for resubmission. (See Attachment IV).

The analysis level on the Form V page 59 and Form IV page 173 need to be clarified so that both forms coincide. (See Attachment IV).

Sample A5222 was missing the reference standard spectrum and the result reported by the laboratory does not agree with the evaluator's calibration. Resubmission has been requested from the laboratory. (See Attachment IV).

For all analyses and calibrations, the internal standard used were 250ng rather than the normal 50mg. The data usability is not affected; however a factor of 5 is used in all calculations to obtain the correct result.



QA ORGANIC DATA REVIEW  
NJDEP  
PEERLESS TUBE  
PAGE 5 OF 9

## EVALUATION BY FRACTION

### II. Base/Neutral/Acids

☐ Holding Time  
☐ Extraction Time  
☐ Surrogate Recovery  
☒ Blank  
☒ MS/MSD  
☐ GC/MS Tuning  
☐ Initial Calibration  
☒ Continuing Calibration  
☐ Compound ID (HSL, TIC)  
☒ Standards  
☐ Spectra Quality  
☐ Chromatography  
☐ Data Completeness

### OVERVIEW

This portion of the case consisted of four soil samples, three water samples, and two field blanks analyzed for TCL Semivolatile target compounds.

All surrogate recovery and calibration data met criteria. Also, the method blanks were free of target compound contamination.

### ISSUES

The following internal standard areas were outside QC criteria:

<u>Sample</u>	<u>Standard</u>	<u>Internal Standard Area</u>
A5221	Acenaphthene	Low
	Phenanthrene	Low
	Chrysene	Low
	Perylene	Low
A5221RE	Acenaphthene	Low
	Phenanthrene	Low
	Chrysene	Low
	Perylene	Low

<u>Sample</u>	<u>Standard</u>	<u>Internal Standard Area</u>
A5223MS	Phenanthrene	Low
	Chrysene	Low
	Perylene	Low
A5223MSRE	Phenanthrene	Low
	Chrysene	Low
	Perylene	Low
A5223MSD	Phenanthrene	Low
A5223MSDRE	Phenanthrene	Low
	Chrysene	Low
	Perylene	Low

Samples A5221, A5223MS, and A5223MSD were all reanalyzed. In all cases, similar outliers were obtained. These samples are exhibiting matrix effects. The original analyses are to be used as the representative sample results. Since the areas are less than 50% of the EICP area of the calibration standard, all data associated with these internal standards are classified estimated and flagged "J" and "UJ".

The %D for surrogate compounds 2,4,6-tribromophenol, and terphenyl-d, exceeded the 25% QC limit in the continuing calibrations analyzed on 12/05/90 and 12/12/90. The surrogate recovery concentrations are considered estimated values. Therefore, the effected surrogate compound percent recovery values are estimated. As such, all associated positive results are quantitatively qualified, "J". Several other compounds had %RSD and/or %D exceed the 30% and 25% QC limits. These compounds were not detected in the samples, no additional qualification is applied.

The field blank contained common contaminant bis(2-ethylhexyl)phthalate at a level less than 3x the CRQL. This compound was not detected in any remaining samples. Therefore, no qualification is applied.

Up to nine compounds were reported in the samples as tentatively identified compounds. The blanks contained similar TIC contamination. These compounds are believed to be a laboratory artifact and are considered estimated. Refer to the target and non-target analyte summary for specific sample references.





QA ORGANIC DATA REVIEW  
NJDEP  
PEERLESS TUBE  
PAGE 7 OF 9

All soil samples were analyzed at 10-fold dilutions. Most positive target compound results were below the CRQL. Sample results may be slightly biased low. These sample results have already been qualified due to internal standard outliers and calibration deficiencies. No additional qualification is applied.

Six soil matrix spike/spike duplicate recoveries, two soil %RPD and four water matrix spike recoveries were outside QC limits. These compounds were not detected in the original sample analyses and since spike recoveries have advisory limits, no qualification is applied.



QA ORGANIC DATA REVIEW  
NJDEP  
PEERLESS TUBE  
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## EVALUATION BY FRACTION

### III. Pesticides/PCB

_____	Holding Time
_____	Extraction Time
<u>X</u>	Surrogate Recovery
<u>X</u>	MS/MSD
_____	Blank
_____	Linearity Calibration
_____	DDT/Endrin Degradation
_____	Analytical Sequence
_____	DBC Retention Time
<u>X</u>	Continuing Calibration
_____	Retention Time Window
_____	Standards
_____	Chromatography
_____	HSL Compounds
_____	Data Completeness

### OVERVIEW

This portion of the case consisted of four soil samples, three water samples, and two field blanks analyzed for TCL Pesticide/PCB target compounds.

All holding time and retention time criteria were met. Also, the samples, field blanks, and method blanks were free of target compound contamination.

### ISSUES

The following dibutylchlorendate surrogate recoveries exceeded the QC limits.

<u>Sample</u>	<u>Surrogate Recovery</u>
CA5221	174
CA5222	195

No specific action is required due to surrogate outliers. Since positive target compounds were not detected, no qualification is applied.

ATTACHMENT V-8  
003



QA ORGANIC DATA REVIEW  
NJDEP  
PEERLESS TUBE  
PAGE 9 OF 9

Several compounds had %D exceed the 15% QC limits for the quantitation column on 12/11/90 to 12/13/90. The affected individual mixes were either analyzed at the end of the analytical sequence or samples were not associated with these outliers. No qualification is applied.

Most water and soil matrix spike/spike duplicate recoveries exceeded the QC limits. Positive target compound results were not found in the original analyses. No action is taken on matrix spike/spike duplicate data alone to qualify or reject an entire group of samples.

The original data package submission was missing the standard concentrations. The resubmitted page is attached. (See Attachment IV).



#### FOOTNOTES FOR TARGET AND NON-TARGET ANALYTE SUMMARY

1. The reported concentration is quantitatively qualified because the concentration is below the CRQL.
2. The value reported is less than 3x the value in the method blank. It is the policy of NJDEP-DHSM to negate the reported value due to probable foreign contamination unrelated to the actual sample. The end-user, however, is alerted that a reportable quantity of the analyte/compound was detected.
3. The value reported is greater than five (5) times the value in the method blank and is considered "real". However, the reported value must be quantitatively qualified "J" due to the method blank contamination. The "B" qualifier alerts the end-user to the presence of this analyte/compound in the method blank.
4. The value reported is less than 3x the value in the trip/field blank. It is the policy of NJDEP-DHSM to negate the reported value as due to probable foreign contamination unrelated to the actual sample. The end-user, however, is alerted that a reportable quantity of the analyte/compound was detected.
5. The non-detected value is rejected because the calibration response factor for the analyte is less than 0.05.
6. One or more internal standard areas in the sample did not meet the QC criteria. Therefore, all compound results using this internal standard for quantitation are quantitatively estimated.
7. The %RSD and/or %D for one or more surrogates were above the control limit, therefore, all of the positive results are qualified estimated.
8. The reported concentration is quantitatively qualified due to calibration deficiencies.



## GLOSSARY OF DATA QUALIFIERS

### CODES RELATING TO IDENTIFICATION

(confidence concerning presence or absence of compounds):

- U = NOT DETECTED, SUBSTANTIALLY ABOVE THE LEVEL  
REPORTED IN LABORATORY OR FIELD BLANKS.
- R = UNRELIABLE RESULT. ANALYTE MAY OR MAY NOT BE  
PRESENT IN THE SAMPLE. SUPPORTING DATA  
NECESSARY TO CONFIRM RESULT.
- N = NEGATED COMPOUND WAS CONSIDERED AS NOT  
PRESENT IN THE SAMPLE.

(NO CODE) = CONFIRMED IDENTIFICATION

### CODES RELATING TO QUANTITATION

(can be used for both positive results and sample quantitation  
limits):

- J = ANALYTE PRESENT. REPORTED VALUE MAY NOT BE  
ACCURATE OR PRECISE.
- L = ANALYTE PRESENT. REPORTED VALUE MAY BE  
BIASED LOW. ACTUAL VALUE IS EXPECTED TO BE  
HIGHER.
- UJ = THE REPORTED QUANTITATION LIMITS ARE  
QUALIFIED ESTIMATED.
- UL = NOT DETECTED. QUANTITATION LIMIT MAY BE  
HIGHER.

### OTHER CODES

- Q = NO ANALYTICAL RESULT.

**TARGET & NON-TARGET ANALYTE DATA SUMMARY**

CASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC. CORP.

SAMPLE MATRIX: SOIL

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
VOA/2.0	CA5221	METHYLENE CHLORIDE	2 J	35	35 JB	QUALIFIED	3,8
	(BSA11020206)	1,2-DICHLOROETHENE	5 U	150	150		
		TRICHLOROETHENE	5 U	220	220		
		TETRACHLOROETHENE	5 U	3	3		
		2-BUTANONE	10 U	22 U	22 R	REJECTED	5
		1 TIC					
BNA/10.0	*CA5221	PHENANTHRENE	330 U	4100	4100 J	QUALIFIED	6,7
		ANTHRACENE	330 U	1100 J	1100 J	QUALIFIED	1,6,7
		FLUORANTHENE	330 U	6400	6400 J	QUALIFIED	6,7
		PYRENE	330 U	5500	5500 J	QUALIFIED	6,7
		BENZO(A)ANTHRACENE	330 U	2800 J	2800 J	QUALIFIED	1,6,7
		CHRYSENE	330 U	3500 J	3500 J	QUALIFIED	1,6,7
		BENZO(B)FLUORANTHENE	330 U	5100	5100 J	QUALIFIED	6,7
		**3 TIC'S					
PEST/1.0	CA5221	NONE					

\* ALL QUANTITATION LIMITS ASSOCIATED WITH INTERNAL STANDARDS ACENAPHTHENE, PHENANTHRENE, CHRYSENE, AND PERYLENE ARE QUALIFIED ESTIMATED DUE TO INTERNAL STANDARD AREA OUTLIERS.

\*\* TIC WITH RT = 30.01 IS CONSIDERED ESTIMATED DUE TO SIMILAR BLANK CONTAMINATION.

ATTACHMENT Y-12

**TARGET & NON-TARGET ANALYTE DATA SUMMARY**

CASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC. CORP.

SAMPLE MATRIX: SOIL

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
VOA/50.0	CAS222	METHYLENE CHLORIDE	12	470 B	470 B	NEGATED	2.8
	(BSA110207)	1,1-DICHLOROETHENE	5 U	200 J	200 J	QUALIFIED	1
		1,2-DICHLOROETHENE	5 U	4700	4700		
		TRICHLOROETHENE	5 U	19000 D	19000 D		
		TETRACHLOROETHENE	5 U	90 J	90 J	QUALIFIED	1
		2-BUTANONE	5 U	540 U	540 R	REJECTED	5
		*2 TIC'S					
BNA/10.0	CAS222	PHENANTHRENE	330 U	1600 J	1600 J	QUALIFIED	1.7
		ANTHRACENE	330 U	320 J	320 J	QUALIFIED	1.7
		FLUORANTHENE	330 U	710 J	710 J	QUALIFIED	1.7
		PYRENE	330 U	620 J	620 J	QUALIFIED	1.7
		NO TIC'S					
PEST/1.0	CAS222	NONE					

\* TIC WITH RT = 2.33 IS QUALIFIED ESTIMATED DUE TO SIMILAR BLANK CONTAMINATION.

D = REPORTED FROM THE MEDIUM LEVEL, 100-FOLD DILUTION ANALYSIS

ATTACHMENT V-13015

**TARGET & NON-TARGET ANALYTE DATA SUMMARY**

CASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC. CORP.

SAMPLE MATRIX: SOIL

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
VOA/1.0	CA5223	METHYLENE CHLORIDE	3 J	8	8 JB	NEGATED	4.8
	(BSA11020208)	TRICHLOROETHENE	5 U	12	12		
		TETRACHLOROETHENE	5 U	3 J	3 J	QUALIFIED	1
		2-BUTANONE	5 U	12 U	12 R	REJECTED	5
		1 TIC					
BNA/10	CA5223	PHENANTHRENE	330 U	1500 J	1500 J	QUALIFIED	1.7
		FLUORANTHENE	330 U	1600 J	1600 J	QUALIFIED	1.7
		PYRENE	330 U	1400 J	1400 J	QUALIFIED	1.7
		BENZO(A)ANTHRACENE	330 U	750 J	750 J	QUALIFIED	1.7
		CHRYSENE	330 U	900 J	900 J	QUALIFIED	1.7
		BENZO(B)FLUORANTHENE	330 U	1300 J	1300 J	QUALIFIED	1.7
		*2 TIC'S					
PEST/1.0	CA5223	NONE					

\* BOTH TIC'S ARE CONSIDERED ESTIMATED DUE TO SIMILAR BLANK CONTAMINATION.

ATTACHMENT 1-14



**TARGET & NON-TARGET ANALYTE DATA SUMMARY**

CASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC. CORP.

SAMPLE MATRIX: SOIL

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
VOA/200	CA5224	METHYLENE CHLORIDE	12	2100 B	2100 JB	NEGATED	2,8
	(BSA11020209)	1,1,1-TRICHLOROETHANE	5 U	870 J	870 J	QUALIFIED	1
		TRICHLOROETHENE	5 U	11000	11000		
		4-METHYL-2-PENTANONE	10 U	3300	3300 J	QUALIFIED	8
		TETRACHLOROETHENE	5 U	37000	3700		
		2-BUTANONE	5 U	2500 U	2500 R	REJECTED	5
		*3 TIC'S					
BNA/10.0	CA5224	NONE					
		**2 TIC'S					
PEST/1.0	CA5224	NONE					

\* TIC WITH RT = 2.35 IS QUALIFIED ESTIMATED DUE TO SIMILAR BLANK CONTAMINATION.

\*\* BOTH TIC'S ARE CONSIDERED ESTIMATED DUE TO SIMILAR BLANK CONTAMINATION.

### TARGET & NON-TARGET ANALYTE DATA SUMMARY

**CASE NO:** \_\_\_\_\_

**SITE NAME:** PEERLESS TUBE

LAB NAME: ETC. CORP.

**SAMPLE MATRIX:** WATER

[illegible]

### TARGET & NON-TARGET ANALYTE DATA SUMMARY

**CASE NO:** \_\_\_\_\_

**SITE NAME:** PEERLESS TUBE

LAB NAME: ETC. CORP.

**SAMPLE MATRIX:** WATER

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
VOA/1.0	CAS226	VINYL CHLORIDE	10 U	6 J	6 J	QUALIFIED	1
	(BSA11020210)	ACETONE	12	8 J	8 JB	NEGATED	4
		1,2-DICHLOROETHENE	5 U	77	77		
		TRICHLOROETHENE	5 U	130	130		
		TETRACHLOROETHENE	5 U	2 J	2 J	QUALIFIED	1
		2-BUTANONE	5 U	10 U	10 R	REJECTED	5
		NO TIC'S					
BNA/1.0	CAS226	NONE					
		*4 TIC'S					
PEST/1.0	CAS226	NONE					

\* TIC WITH RT = 3.29 and 7.03 ARE CONSIDERED ESTIMATED DUE TO SIMILAR BLANK CONTAMINATIONS.

\* TIC WITH RT = 3.29 and 7.03 ARE CONSIDERED ESTIMATED DUE TO SIMILAR BLANK CONTAMINATIONS.

### TARGET & NON-TARGET ANALYTE DATA SUMMARY

**CASE NO:** \_\_\_\_\_

**SITE NAME:** PEERLESS TUBE

LAB NAME: ETC. CORP.

**SAMPLE MATRIX:** WATER

[illegible]

\* TIC WITH RT = 4.70 IS CONSIDERED ESTIMATED DUE TO SIMILAR BLANK CONTAMINATION.

ATTACHMENT 4-18  
020

### TARGET & NON-TARGET ANALYTE DATA SUMMARY

**CASE NO:** \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC. CORP.

**SAMPLE MATRIX:** WATER (FIELD BLANK)

[illegible]

ATTACHMENT 4-19 021

### TARGET & NON-TARGET ANALYTE DATA SUMMARY

**CASE NO:** \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC. CORP.

**SAMPLE MATRIX:** WATER (FIELD BLANK)

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
VOA/1.0	CAS229	METHYLENE CHLORIDE	6	3 J	3 JB	NEGATED	12
	(BSA11020213)	ACETONE	10 U	12	12		
		2-BUTANONE	5 U	10 U	10 R	REJECTED	5
		NO TIC'S					
BNA/1.0	CAS229	BIS(2-ETHYLHEXYL) PHTHALATE	10 U	27	27		
		*3 TIC'S					
PEST/1.0	CAS229	NONE					

\* TIC'S WITH RT = 3.19 and 7.06 ARE CONSIDERED ESTIMATED DUE TO BLANK CONTAMINATION.

ATTACHMENT 1-20 022

### TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: \_\_\_\_\_

**SITE NAME:** PEERLESS TUBE

LAB NAME: ETC. CORP.

**SAMPLE MATRIX:** WATER (TRIP BLANK)

[illegible]

ATTACHMENT Y-21023



NJDEP  
SDG #M208S and M209W

Site Name: Peerless Tube  
Laboratory: ETC Corporation  
Data Reviewer: Douglas Godfrey  
Data Supervisor: Zohreh Hamid, Ph.D.

The laboratory's portion of SDG #M208S and M209W consisted of nine samples (four soil and five water) analyzed for inorganic target analyte list (TAL) parameters by ETC Corporation.

The laboratory reported no problems with the receipt and analysis of the samples received on 11/05/90.

The laboratory performed the analyses according to the procedures set forth in the NJDEP CLP method. Analysis of the soil preparation blank indicated contamination for Pb and the water preparation blank indicated contamination for Al, Ca, Fe, and Zn. Initial and continuing calibration verification samples were within acceptable control limits. The most significant problems affecting the data usability are associated with the QC performance requirements and are addressed in the following section.

Minor Issues

The water post-digestion spike percent recovery for Se was significantly below the CLP control limits after the sample reanalysis. The associated sample result is highly qualified due to severe matrix interferences (Ca5227).

The CCV was not analyzed at the proper frequency for Ca, Al, Fe, and Cu (Ca5224), and Ca (Ca5225).

The beginning CCV was not analyzed before analytical samples. All samples run prior to the first CCV are qualified as estimated (ICP analytes Ca5221; As, Tl, Se, Hg = all samples; CN (Ca5221, 5222).

The CRDL sample percent recoveries for Cd (125.7), Se (120.6), Pb by ICP (123.5) and furnace (125.8) and Ag (136.9) were above the CLP validation control limits for water. All associated water samples >IDL are qualified as estimated and are considered to be biased high due to poor linearity near the CRDL for ICP and the establishment of a poor analytical curve for GFAA (Cd, Pb, Ag = Ca5227; Cd, Pb = Ca5226; Cd, Pb, Ag, Se = Ca5225).





The CRDL sample percent recoveries for Pb (76.7) and As not listed on Form 2B (53.0) were below the CLP validation control limits for soil. All associated sample results are qualified as estimated and are considered to be biased low due to poor linearity near the CRDL for ICP and the establishment of a poor analytical curve for GFAA (Pb = all soil samples; As = Ca5221).

The water preparation blank contained Al, Ca, Fe, and Zn. All associated sample results >5x the preparation blank value are considered to be real, but are quantitatively qualified (Fe = Ca5228; Al, Ca, Fe, Zn = Ca5225, Ca5226, Ca5227). All associated sample results between 3 and 5x the preparation blank may be considered to be real, but are quantitatively qualified and resampling and reanalysis is recommended (Al = Ca5228). All associated sample results <3x the preparation blank value are considered to be negated due to laboratory contamination (Al, Ca, Fe = Ca5229, Zn = C5228, CA5229; Ca = Ca5228).

The soil preparation blank contained Pb. All associated sample results were >5x the preparation blank and are considered to be real, but are quantitatively qualified.

The water preparation blank values for Be and Mg were below the negative IDL. All associated sample results are qualified as estimated and are considered to be biased low.

The soil preparation blank value for Be, Mg, and Na were below the negative IDL. All associated sample results are qualified as estimated and are considered to be biased low.

The ICSA sample was not analyzed. All associated sample are qualified as estimated and are considered to be non-compliant.

The ICSAB sample results for Na (629) for the water sample, Sb (52.9), Na (592), and K (136) for the soil samples were above the IDL. The associated sample results >5x the ICS value are considered to be real, but are quantitatively qualified (Na = Ca5225, Ca5226, Ca5227; K = Ca5222, Ca5223, Ca5224). The associated sample results <5x the ICS value are considered to be a false positive (Na = all soil samples; K = Ca5221). All associated sample results are considered to be biased high.

The ICSAB sample results for Sb (-83.9) was greater than 3x the IDL. All associated water sample results are qualified as estimated and are considered to be biased low.

The soil matrix spike percent recovery for Se, Hg, and CN was above the CLP control limit. All associated sample results >IDL are qualified as estimated and are considered to be biased high (Se = Ca5222; Hg, CN = all samples).



The soil matrix spike was not performed at the proper concentration for Mn, Ni, and Zn. All associated sample results are qualified as estimated.

The water matrix spike and duplicate digestion samples were not performed for Pb by ICP. All associated sample results are rejected (Ca5226, Ca5227).

The soil serial dilution percent difference for K was above the CLP validation control limits. All associated sample results are qualified as estimated.

The water serial dilution percent difference for Cu and K was above the CLP validation control limits. All associated sample results are qualified as estimated.

The water post-digestion spike percent recoveries for Se and Tl were below the CLP control limits. All associated sample results are qualified as estimated and are considered to be biased low (Se = Ca5226; Tl = Ca5226, Ca5227).

The soil post-digestion spike percent recovery for Tl was below the CLP control limits. All associated sample results are qualified as estimated and are considered to be biased low (Tl = Ca5224).

The soil field blank (Ca5229) contained Al, Ca, Fe, Tl, Zn, and CN above the IDL. All associated sample results >5x the field blank value are considered to be real, but are quantitatively qualified due to field blank contamination (Al, Ca, Fe, Zn = all soil samples). All associated sample results between 3 and 5x the field blank value may be considered to be real, but are quantitatively qualified due to possible field contamination (CN = Ca5221, Ca5224). All associated sample results <3x the field blank value are considered to be negated due to field blank contamination (Tl = Ca5223, Ca5224, CN = 5222, 5223).

The water field blank (Ca5228) contained Al, Ca, Fe, Zn, and CN above the IDL. All associated sample results >5x the field blank value are considered to be real, but are quantitatively qualified due to field blank contamination (Al, Ca, Fe, Zn = all water samples). All associated sample results <3x the field blank value are considered to be negated due to field blank contamination (CN = all water samples).

All associated sample results between the IDL and CRDL are qualified as estimated for all associated analytes since the value obtained is at the low end of the instruments performance.

**WESTON**

Notes

The data package does not contain verification samples in the correct location on the forms. This is considered to be non-compliant and should be corrected.

All CRDL sample results after the first analytical run were not reported. The review was conducted based on the raw data. The Form 2B's should be submitted.

The final ICSAB sample results were run after the final CCV/CCB samples. This is considered to be contractually non-compliant, but acceptable.

Calculated % recoveries for Hg does not match the values obtained by the reviewer. The correct values should be corrected.

The "W" flag for Pb should be removed for sample Ca5229.

The date of receipt is questionable (package = 11-3-90, chain of custody = 11-5-90). Since no holding times were affected, no action was taken.



## GLOSSARY OF DATA QUALIFIERS

### CODES RELATING TO IDENTIFICATION

(confidence concerning presence or absence of compounds):

- U = NOT DETECTED, SUBSTANTIALLY ABOVE THE LEVEL  
REPORTED IN LABORATORY OR FIELD BLANKS.
- R = UNRELIABLE RESULT. ANALYTE MAY OR MAY NOT BE  
PRESENT IN THE SAMPLE. SUPPORTING DATA  
NECESSARY TO CONFIRM RESULT.
- N = NEGATED COMPOUND WAS CONSIDERED AS NOT  
PRESENT IN THE SAMPLE.

(NO CODE) = CONFIRMED IDENTIFICATION

### CODES RELATING TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

- J = ANALYTE PRESENT. REPORTED VALUE MAY NOT BE  
ACCURATE OR PRECISE.
- L = ANALYTE PRESENT. REPORTED VALUE MAY BE  
BIASED LOW. ACTUAL VALUE IS EXPECTED TO BE  
HIGHER.
- UJ = THE REPORTED QUANTITATION LIMITS ARE  
QUALIFIED ESTIMATED.
- UL = NOT DETECTED. QUANTITATION LIMIT MAY BE  
HIGHER.

### OTHER CODES

- Q = NO ANALYTICAL RESULT.

INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC CORP.

SAMPLE MATRIX: SOIL

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.*	LAB REPORT CONC.*	QA REPORT CONC.*	QA DECISIONS	FOOTNOTE
BSA11020206 SOIL 1	CA5221	ALUMINUM		7020	7020 J	QUALIFIED	11,98,111.
		ANTIMONY			4.5 UJ	QUALIFIED	98,111
		ARSENIC		7.7	7.7 J	QUALIFIED	88,98
		BARIUM		76.5	76.5 J	QUALIFIED	98,111
		BERYLLIUM	-0.118	0.2 B	0.2 J	QUALIFIED	43,98,99,111
		CADMIUM		1.9	1.9 J	QUALIFIED	98,111
		CALCIUM		9590	9590 J	QUALIFIED	11,98,111
		CHROMIUM		23.5	23.5 J	QUALIFIED	98,111
		COBALT		4.4 B	4.4 J	QUALIFIED	43,98,111
		COPPER		142	142 J	QUALIFIED	98,111
		IRON		13500	13500 J	QUALIFIED	11,98,111
		LEAD	0.921	260	260 BJ	QUALIFIED	8,88,98,111
		MAGNESIUM	-5.45	2400	2400 J	QUALIFIED	98,99,111
		MANGANESE		304	304 J	QUALIFIED	98,111,112
		MERCURY		2.0	2.0 J	QUALIFIED	54,98
		NICKEL		29.9	29.9 J	QUALIFIED	98,111,112
		POTASSIUM		500 B	500 J	QUALIFIED	43,61,90,98,111
		SELENIUM			0.6 UJ	QUALIFIED	98
		SILVER			1.2 UJ	QUALIFIED	98,111
		SODIUM	-14.65	104 B	104 J	QUALIFIED	43,90,98,99,111
		THALLIUM			0.4 UJ	QUALIFIED	98
		VANADIUM		52.8	52.8 J	QUALIFIED	98,111
		ZINC		277.0	277.0 J	QUALIFIED	11,98,111,112
		CYANIDE		0.6	0.6 J	QUALIFIED	10,54,98

\* mg/kg

ATTACHMENT Y-77  
003

INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC CORP

SAMPLE MATRIX: SOIL

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.*	LAB REPORT CONC.*	QA REPORT CONC.*	QA DECISIONS	FOOTNOTE
BSA110207 SOIL 2	CAS222	ALUMINUM		19200	19200 J	QUALIFIED	11,111
		ANTIMONY			4.5 UJ	QUALIFIED	111
		ARSENIC		8.0	8.0 U	QUALIFIED	98
		BARIUM		167	167 J	QUALIFIED	111
		BERYLLIUM	-0.118	1.4	1.4 J	QUALIFIED	99,111
		CADMIUM		4.7	4.7 J	QUALIFIED	111
		CALCIUM		66400	66400 J	QUALIFIED	11,111
		CHROMIUM		182	182 J	QUALIFIED	111
		COBALT		5.6 B	5.6 J	QUALIFIED	43,111
		COPPER		1080	1080 J	QUALIFIED	111
		IRON		20000	20000 J	QUALIFIED	11,111
		LEAD	0.921	563	563 BJ	QUALIFIED	8,88,111
		MAGNESIUM	-5.45	19600	19600 J	QUALIFIED	99,111
		MANGANESE		1190	1190 J	QUALIFIED	111,112
		MERCURY		3.5	3.5 J	QUALIFIED	54,98
		NICKEL		169	169 J	QUALIFIED	111,112
		POTASSIUM		901 B	901 J	QUALIFIED	43,61,89,111
		SELENIUM		1.3	1.3 J	QUALIFIED	54,98
		SILVER		7.1	7.1 J	QUALIFIED	111
		SODIUM	-14.65	572 B	572 J	QUALIFIED	43,90,99,111
		THALLIUM		0.4 B	0.4 J	QUALIFIED	43,98
		VANADIUM		45.4	45.4 J	QUALIFIED	111
		ZINC		633	633 J	QUALIFIED	11,111,112
		CYANIDE		0.4 B	0.4 J	NEGATED	9,43,54,98

\* mg/kg

ATTACHMENT Y-78

009

INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC CORP

SAMPLE MATRIX: SOIL

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.*	LAB REPORT CONC.*	QA REPORT CONC.*	QA DECISIONS	FOOTNOTE
BSA11020208 SOIL 3	CAS223	ALUMINUM		9840	9840 J	QUALIFIED	11,111
		ANTIMONY			4.5 UJ	QUALIFIED	111
		ARSENIC		5.3	5.3 J	QUALIFIED	98
		BARIUM		88.1	88.1 J	QUALIFIED	111
		BERYLLIUM	-0.118	0.3 B	0.3 J	QUALIFIED	43,99,111
		CADMIUM		3.9	3.9 J	QUALIFIED	111
		CALCIUM		3230	3230 J	QUALIFIED	11,111
		CHROMIUM		248	248 J	QUALIFIED	111
		COBALT		8.9 B	8.9 J	QUALIFIED	43,111
		COPPER		916	916 J	QUALIFIED	111
		IRON		34800	34800 J	QUALIFIED	11,111
		LEAD	0.921	354	354 BJ	QUALIFIED	8,88,111
		MAGNESIUM	-5.45	1940	1940 J	QUALIFIED	99,111
		MANGANESE		536	536 J	QUALIFIED	111,112
		MERCURY		0.2	0.2 J	QUALIFIED	54,98
		NICKEL		235	235 J	QUALIFIED	111,112
		POTASSIUM		615 B	615 J	QUALIFIED	43,61,98,111
		SELENIUM			0.6 UJ	QUALIFIED	98
		SILVER		4.1	4.1 J	QUALIFIED	111
		SODIUM	-14.65	123 B	123 J	QUALIFIED	43,90,99,111
		THALLIUM		1.0 B	1.0 J	NEGATED	9,43,98
		VANADIUM		28.4	J	QUALIFIED	111
		ZINC		609	J	QUALIFIED	11,111,112
		CYANIDE		0.5 B	0.5 J	NEGATED	9,43,54

\* mg/kg

ATTACHMENT Y-89010

INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC CORP

SAMPLE MATRIX: SOIL

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.*	LAB REPORT CONC.*	QA REPORT CONC.*	QA DECISIONS	FOOTNOTE
BSA11020209 SOIL 4	CA5224	ALUMINUM		9240	9240 J	QUALIFIED	11,110,111
		ANTIMONY			4.5 UJ	QUALIFIED	111
		ARSENIC		6.1	6.1 J	QUALIFIED	98
		BARIUM		163	163 J	QUALIFIED	111
		BERYLLIUM	-0.118	0.3 B	0.3 J	QUALIFIED	43,99,111
		CADMIUM		7.3	7.3 J	QUALIFIED	111
		CALCIUM		3190	3190 J	QUALIFIED	11,110,111
		CHROMIUM		461	461 J	QUALIFIED	111
		COBALT		8.7 B	8.7 J	QUALIFIED	43,111
		COPPER		1120	1120 J	QUALIFIED	110,111
		IRON		29400	29400 J	QUALIFIED	11,110,111
		LEAD	0.921	1030	1030 BJ	QUALIFIED	8.88,111
		MAGNESIUM	-5.45	1660	1660 J	QUALIFIED	99,111
		MANGANESE		467	467 J	QUALIFIED	111,112
		MERCURY		0.7	0.7 J	QUALIFIED	54,98
		NICKEL		422	422 J	QUALIFIED	111,112
		POTASSIUM		580 B	580 J	QUALIFIED	43,61,89,111
		SELENIUM			0.6 UJ	QUALIFIED	98
		SILVER		7.9	7.9 J	QUALIFIED	111
		SODIUM	-14.65	75.6 B	75.6 J	QUALIFIED	43,90,99,111
		THALLIUM		1.3 B	1.3 J	NEGATED	9,43,74,98
		VANADIUM		25.1	25.1 J	QUALIFIED	111
		ZINC		1130	1130 J	QUALIFIED	11,111,112
		CYANIDE		0.7	0.7 J	QUALIFIED	10,54

\* mg/kg

ATTACHMENT Y-90011



INORGANIC TARGET ANALYTE SUMMARY LIST

ASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

AB NAME: ETC CORP

SAMPLE MATRIX: WATER

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.*	LAB REPORT CONC.*	QA REPORT CONC.*	QA DECISIONS	FOOTNOTE
BSA11020212 WELL 3	CA5225	ALUMINUM	23.1	18700	18700 BJ	QUALIFIED	8,11,111
		ANTIMONY			22.3 UJ	QUALIFIED	83,111
		ARSENIC		14.1	14.1 J	QUALIFIED	98
		BARIUM		497	497 J	QUALIFIED	111
		BERYLLIUM	-0.4	0.9 B	0.9 J	QUALIFIED	43,99,111
		CADMIUM		4.1 B	4.1 J	QUALIFIED	43,86,111
		CALCIUM	75.3	107000	107000 BJ	QUALIFIED	8,11,110,111
		CHROMIUM		38.3	38.3 J	QUALIFIED	111
		COBALT		12.5 B	12.5 J	QUALIFIED	43,111
		COPPER		94.2	94.2 J	QUALIFIED	61,111
		IRON	8.9	31200	31200 BJ	QUALIFIED	8,11,111
		LEAD		40.1	40.1 J	QUALIFIED	86
		MAGNESIUM	-34.4	12000	12000 J	QUALIFIED	99,111
		MANGANESE		1090	1090 J	QUALIFIED	111
		MERCURY		1.8	1.8 J	QUALIFIED	98
		NICKEL		29.9 B	29.9 J	QUALIFIED	43,111
		POTASSIUM		6020	6020 J	QUALIFIED	61,111
		SELENIUM		60.3	60.3 J	QUALIFIED	86,98
		SILVER		6.0 B	6.0 J	QUALIFIED	43,86,111
		SODIUM		4900 B	4900	QUALIFIED	43,89,111
		THALLIUM			1.9 UJ	QUALIFIED	98
		VANADIUM		55.6	55.6 J	QUALIFIED	111
		ZINC	5.3	161	161 BJ	QUALIFIED	8,11,111
		CYANIDE		3.5 B	3.5 J	NEGATED	9,43

ug/L

ATTACHMENT Y34 012

INORGANIC TARGET ANALYTE SUMMARY LIST

USE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC CORP

SAMPLE MATRIX: WATER

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.*	LAB REPORT CONC.*	QA REPORT CONC.*	QA DECISIONS	FOOTNOTE
BSA11020210 WELL 1	CAS226	ALUMINUM	23.1	9720	9720 BJ	QUALIFIED	8,11,111
		ANTIMONY			22.3 UJ	QUALIFIED	83,111
		ARSENIC		4.2 B	4.2 J	QUALIFIED	43,98
		BARIUM		228	228 J	QUALIFIED	111
		BERYLLIUM	-0.4		0.2 UJ	QUALIFIED	99,111
		CADMIUM		25.5	25.5 J	QUALIFIED	86,111
		CALCIUM	75.3	87400	87400 BJ	QUALIFIED	8,11,111
		CHROMIUM		15.0	15.0 J	QUALIFIED	111
		COBALT		4.7 B	4.7 J	QUALIFIED	43,111
		COPPER		58.9	58.9 J	QUALIFIED	61,111
		IRON	8.9	14300	14300 BJ	QUALIFIED	8,11,111
		LEAD		327	327 J	QUALIFIED	86,104,109,111
		MAGNESIUM	-34.4	7730	7730 J	QUALIFIED	99,111
		MANGANESE		1910	1910 J	QUALIFIED	111
		MERCURY			0.1 UJ	QUALIFIED	98
		NICKEL		13.9 B	13.9 J	QUALIFIED	43,111
		POTASSIUM		3200 B	3200 J	QUALIFIED	43,61,111
		SELENIUM			3.2 UJ	QUALIFIED	74,98
		SILVER			5.8 UJ	QUALIFIED	111
		SODIUM		15700	15700 J	QUALIFIED	89,111
		THALLIUM		4.1 B	4.1 J	QUALIFIED	43,74,98
		VANADIUM		19.5 B	19.5 J	QUALIFIED	43,111
		ZINC	5.3	534	534 BJ	QUALIFIED	8,11,111
		CYANIDE		3.8 B	3.8 J	NEGATED	9,43

\* ug/L

ATTACHMENT

1-32

013

INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC CORP

SAMPLE MATRIX: WATER

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.*	LAB REPORT CONC.*	QA REPORT CONC.*	QA DECISIONS	FOOTNOTE
BSA11020211 WELL 2	CAS227	ALUMINUM	23.1	21700	21700 BJ	QUALIFIED	8,11,111
		ANTIMONY			22.3 UJ	QUALIFIED	83,111
		ARSENIC		18.1	18.1 J	QUALIFIED	98
		BARIUM		2100	2100	QUALIFIED	111
		BERYLLIUM	-0.4	15.3	15.3 J	QUALIFIED	99,111
		CADMIUM		31.0	31.0 J	QUALIFIED	86,111
		CALCIUM	75.3	188000	188000 BJ	QUALIFIED	8,11,111
		CHROMIUM		432	432 J	QUALIFIED	111
		COBALT		180	180 J	QUALIFIED	111
		COPPER		742	742 J	QUALIFIED	61,111
		IRON	8.9	40200	402000 BJ	QUALIFIED	8,11,111
		LEAD		276	276 J	QUALIFIED	86,104,105,111
		MAGNESIUM	-34.4	76600	76600 J	QUALIFIED	99,111
		MANGANESE		18900	18900 J	QUALIFIED	111
		MERCURY		0.2 B	0.2 J	QUALIFIED	43,98
		NICKEL		386	386 J	QUALIFIED	111
		POTASSIUM		23400	23400 J	QUALIFIED	61,111
		SELENIUM			6.4 UJ	QUALIFIED	91,98
		SILVER		18.7	18.7 J	QUALIFIED	86,111
		SODIUM		46200	46200 J	QUALIFIED	89,111
		THALLIUM		3.4 B	3.4 J	QUALIFIED	43,74,98
		VANADIUM		463	463 J	QUALIFIED	111
		ZINC	5.3	846	846 BJ	QUALIFIED	8,11,111
		CYANIDE		5.0 B	5.0 J	NEGATED	9,43

\* ug/L

ATTACHMENT Y33 014

INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBE

LAB NAME: ETC CORP

SAMPLE MATRIX: WATER

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.*	LAB REPORT CONC.*	QA REPORT CONC.*	QA DECISIONS	FOOTNOTE
BSA11020214 FIELD BLANK (WATER)	CA5528	ALUMINUM	23.1	93.2 B	93.2 BJ	QUALIFIED	7,43,111
		ANTIMONY			22.3 UJ	QUALIFIED	83,111
		ARSENIC			1.1 UJ	QUALIFIED	98
		BARIUM			1.1 UJ	QUALIFIED	111
		BERYLLIUM	-0.4		0.2 UJ	QUALIFIED	99,111
		CADMIUM			1.0 UJ	QUALIFIED	111
		CALCIUM	75.3	108 B	108 BJ	NEGATED	6,43,111
		CHROMIUM			4.3 UJ	QUALIFIED	111
		COBALT			4.1 UJ	QUALIFIED	111
		COPPER			4.9 UJ	QUALIFIED	61,111
		IRON	8.9	66.7 B	66.7 BJ	QUALIFIED	8,43,111
		LEAD			2.0 UJ	QUALIFIED	
		MAGNESIUM	-34.4		25.7 UJ	QUALIFIED	99,111
		MANGANESE			1.2 UJ	QUALIFIED	111
		MERCURY			0.1 UJ	QUALIFIED	98
		NICKEL			9.9 UJ	QUALIFIED	111
		POTASSIUM			135 UJ	QUALIFIED	61,111
		SELENIUM			3.2 UJ	QUALIFIED	98
		SILVER			5.8 UJ	QUALIFIED	111
		SODIUM			70.0 UJ	QUALIFIED	111
		THALLIUM			1.9 UJ	QUALIFIED	98
		VANADIUM			4.7 UJ	QUALIFIED	111
		ZINC	5.3	7.6 B	7.6 BJ	NEGATED	6,43,111
		CYANIDE		3.9 B	3.9 J	QUALIFIED	43

\* ug/L

ATTACHMENT Y-34015

## INORGANIC TARGET ANALYTE SUMMARY LIST

USE NO: \_\_\_\_\_

SITE NAME: PEERLESS TUBELAB NAME: ETC CORPSAMPLE MATRIX: WATER

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.*	LAB REPORT CONC.*	QA REPORT CONC.*	QA DECISIONS	FOOTNOTE
BSA11020213 FIELD BLANK (SOIL)	CA5229	ALUMINUM	23.1	37.1 B	37.1 BJ	NEGATED	6,43,111
		ANTIMONY			22.3 UJ	QUALIFIED	83,111
		ARSENIC			1.1 UJ	QUALIFIED	98
		BARIUM			1.1 UJ	QUALIFIED	111
		BERYLLIUM	-0.4		0.2 UJ	QUALIFIED	99,111
		CADMIUM			1.0 UJ	QUALIFIED	111
		CALCIUM	75.3	85.8 B	85.8 BJ	NEGATED	6,43,111
		CHROMIUM			4.3 UJ	QUALIFIED	111
		COBALT			4.1 UJ	QUALIFIED	111
		COPPER			4.9 UJ	QUALIFIED	61,111
		IRON	8.9	25.8 B	25.8 BJ	NEGATED	6,43,111
		MAGNESTIUM	-34.4		25.7 UJ	QUALIFIED	99,111
		MANGANESE			1.2 UJ	QUALIFIED	111
		MERCURY			0.1 UJ	QUALIFIED	98
		NICKEL			9.9 UJ	QUALIFIED	111
		POTASSIUM			135 UJ	QUALIFIED	61,111
		SELENIUM			3.2 UJ	QUALIFIED	98
		SILVER			5.8 UJ	QUALIFIED	111
		SODIUM			70.0 UJ	QUALIFIED	111
		THALLIUM		10.2	10.2 UJ	QUALIFIED	98
		VANADIUM			4.7 UJ	QUALIFIED	111
		ZINC	5.3	6.8 B	6.8 BJ	NEGATED	6,43,111
		CYANIDE		2.9 B	2.9 J	QUALIFIED	43

ug/L

iv. Footnotes for Target and non Target Analyte Summary

Listed below are the footnotes and footnote numbers that shall be used on the Summary. These footnotes shall not be revised or renumbered. If the contractor must develop a new footnote, the number is to be sequentially added to the end of the footnote listing.

1. The reported concentration is quantitatively qualified due to calibration deficiencies.
2. The reported concentration is quantitatively qualified due to surrogate recovery outliers.
3. The reported concentration is quantitatively qualified because the concentration is below the CRQL.
4. The non-detected value is rejected because the calibration response factor for the analyte is less than 0.05.
5. The sample holding time to reextraction and/or reanalysis was exceeded. All positive results including the tentatively identified compounds are highly qualified.
6. The value reported is less than 3x the value in the method blank. It is the policy of NJDEP-DHSM to negate the reported value due to probable foreign contamination unrelated to the actual sample. The end-user, however, is alerted that a reportable quantity of the analyte/compound was detected.
7. The value reported is between 3x and 5x the value in the method blank. The presence of that analyte/compound may be due to its "real presence" in the sample, and/or laboratory contamination. However, the reported value must be quantitatively qualified "J" due to the method blank contamination. The "B" qualifier alerts the end-user to the presence of this analyte/compound in the method blank. The presence of this analyte/compound in the sample may be due to its "real presence" in the sample and/or possible foreign laboratory/field contamination unrelated to the actual sample. Resampling and reanalysis is recommended.
8. The value reported is greater than five (5) times the value in the method blank and is considered "real". However, the reported value must be quantitatively qualified "J" due to the method blank contamination. The "B" qualifier alerts the end-user to the presence of this analyte/compound in the method blank.

ATTACHMENT Y-35

9. The value reported is less than 3x the value in the trip/field blank. It is the policy of NJDEP-DHSM to negate the reported value as due to probable foreign contamination unrelated to the actual sample. The end-user, however, is alerted that a reportable quantity of the analyte/compound was detected.
10. The value reported is between 3x and 5x the value in the field/trip blank and may be due to possible foreign laboratory/field contamination unrelated to the actual sample. The value reported is not negated. However, the reported value must be quantitatively qualified "J" due to trip/field blank contamination.
11. The value reported is greater than 5x the value in the trip/field blank and is considered "real". However, the reported value must be quantitatively qualified "J" due to trip/field blank contamination.
12. The % RSD and/or % Difference for one or more surrogates were above the control limit, therefore, all of the positive results for the fraction are qualified.
13. One CCC compound for either the VOA, AE or BN fraction is above the maximum allowable level for the initial calibration or the continuing calibration. The entire fraction is highly qualified and all results are considered to be estimated values.
14. Two or more CCC compounds for either the VOA, AE or BN fraction are above the maximum allowable level for the initial calibration or the continuing calibration. The entire fraction is rejected and all sample results are rejected.
15. The concentration reported by the laboratory is incorrectly calculated.
16. The laboratory failed to report the presence of the analyte in the sample.
17. The mass spectral identification has not been confirmed and the identification of this compound has been rejected. This compound should now be considered an unknown and the reported concentration is considered an estimated value.
19. The laboratory didn't provide the mass spectral proof for the analyte although the quantitation report indicates the presence of the analyte. The presence of this analyte in the sample is considered tentative.
20. The non target compound is qualified "J" and considered an estimated value because relative response factors are not determined for non-target compounds.

ATTACHMENT 1-37

21. The laboratory call on the non target compound did not match the mass spectra of the compound at the approximate scan number in the blank. The laboratory call is incorrect.
22. The laboratory failed to report this analyte on the Organic Analysis Data Sheet (OADS) Form even though the TIC, quantitation report and library search indicates a hit for the analyte.
23. The laboratory reported this analyte in the OADS form. However, this analyte was negated in the quantitation report. QA reviewer agrees the mass spectrum is not a good match and therefore, negates the presence of this analyte in the sample.
24. No library search was submitted for this unknown.
25. One internal standard area in the sample did not meet the QC criteria. Therefore, all compound results using this internal standard for quantitation are quantitatively estimated.
26. Two or more internal standard areas in the sample did not meet the QC criteria. The entire fraction for that sample is rejected.
27. The RIC in the raw data indicates a non-target(s) is present. The lab failed to report and provide library search(s) for the non-target(s).
28. The laboratory did not quantify the pesticides present in the sample. The pesticide was confirmed on a second column. Quantification of the peaks revealed that the value is above the CRQL.
29. The lab failed to report this analyte even though it was found in both the primary and confirming columns.
30. DBC time shift is greater than the maximum allowed for the column used for the analysis of the sample. The sample results are rejected.
31. This analyte was found in the primary column but not in the confirming column. Therefore, the laboratory call for this analyte's presence is negated.
32. The retention time window for this analyte overlaps with the retention time window of another analyte. The identity is indistinguishable and therefore tentative.
33. The laboratory reported concentration does not agree with QA reviewer's calculated concentration. The laboratory does not indicate which peak(s) were integrated to arrive at their concentration.



34. The compound exceeds the calibration range of the instrument and is indicated with the "E" qualifier.
35. The compound is a suspected Aldol condensation product and is flagged with the "A" qualifier.
36. The laboratory was required to dilute the samples to bring the peaks onto scale. The CLP methodology requires dilutions to be indicated with the "D" qualifier.
37. This sample was diluted prior to analysis. The value reported prior to the dilution correction is between 3 and 5 times the value in the method blank and may be due to possible foreign laboratory/field contamination unrelated to the actual sample. The value reported is not negated. However, the reported value must be quantitatively qualified "J" due to method blank contamination. The "B" qualifier alerts the end-user to the presence of this analyte in the method blank.
38. This sample was diluted prior to analysis. The value reported prior to the dilution correction is less than 3x the value in the method blank. It is the policy of NJDEP-DHSM to negate the reported value due to probable foreign laboratory contamination unrelated to the actual sample. The end-user is alerted that a reportable quantity of the analyte was detected.
39. This non-target compound was detected as a target compound in another analytical fraction. Therefore, the presence of this compound as a non-target analyte is negated.
40. This sample was diluted prior to analysis. The value reported prior to the dilution correction is greater than five (5) times the value in the method blank and is considered "real". However, the reported value must be quantitatively qualified "J" due to method blank contamination. The "B" qualifier alerts the end-user to the presence of this analyte in the method blank.
41. The reported metal value was qualified because the Initial/Continuing Calibration Standard was not within the recovery range (90-110 percent).
42. No CRDL Standard for AA or ICP analysis was performed. Therefore, the analyte affected was rejected.
43. The reported concentration was quantitatively qualified because the concentration was below the CRDL but greater than the IDL. The concentration is considered estimated since the value obtain is at the low end of the instrument performance.

44. The reported metal value was qualified because the ICP Interference Check Sample was outside the recovery range (80-120 percent).
45. The non-detect metal value was qualified because the ICP Interference Check Sample was within the range of 30 and 79%; hence a possibility of false negatives exists and therefore, is flagged estimated "UJ".
46. The metal value reported was less than 3x the value in the preparation blank. Therefore, the reported value is negated due to the probable foreign laboratory contamination.
47. This non-detected metal analyte had Laboratory Control Sample recovery that fell within the range of 50-79%. The end-user should be aware of the possibility of false negatives; therefore, this analyte is flagged as estimated (UJ).
48. The reported metal value was qualified because the Laboratory Control Sample recovery fell within the range of 50-79 %. The end-user should be aware of results that may be biased low.
49. The reported metal value was qualified because Laboratory Control Sample recovery was greater than 120%. The end-user should be aware of results that may be biased high.
50. This metal analyte is rejected because the Laboratory Control Sample recovery was less than 50%.
51. In the Duplicate Sample Analysis for metals, the analyte fell outside the control limits of  $\pm 20$  percent or  $\pm$  CRDL. Therefore, result for the metal was qualified.
52. This analyte was rejected because the laboratory performed the Duplicate Analysis on a field blank.
53. The laboratory incorrectly flagged this analyte with the '\*' to denote Duplicate Analysis results did not meet the QC limit.
54. The reported metal value was qualified because the spike recovery was greater than 125 percent.
55. The reported metal value was qualified because the spike recovery was between 31 and 74 percent.
56. The reported metal value was qualified because the spike recovery was less than 30 percent. The reported value actually indicated the minimum concentration at which the metal was present.

ATTACHMENT 7/40

57. The non-detected metal value was qualified (UJ) because the spike recovery was between 31 and 74 percent. The possibility of a false negative exists.
58. The non-detected metal value was rejected because the spike recovery was less than 30.0 percent.
59. The reported metal value was rejected because the laboratory used a field blank for the Sample Spike Analysis.
60. There was no Post-Digestion Spike Sample Recovery analysis performed. Therefore, the analyte was rejected.
61. The reported metal value was qualified because the Serial Dilution was not within ten percent of sample concentration.
62. The reported metal value was rejected because the laboratory used a field blank for the Serial Dilution analysis.
63. The laboratory failed to flag this analyte with the 'E' qualifier to denote Serial Dilution result did not meet the QC limit.
64. This metal analyte is rejected because the preparation blank concentration of this analyte is greater than the CRDL and the reported sample concentration is less than ten (10) times the preparation blank concentration.
65. The laboratory incorrectly transcribed the raw data onto the Inorganic Analysis Data Sheet (IADS) form.
66. The reported metal analyte was rejected because the CRDL standard fell less than 50% or was greater than 150% and is indicative of severe analytical deficiencies.
67. The non-detected metal value was rejected because the post-digestion spike recovery was less than 30 percent.
68. The reported metal analyte was rejected because the associated Continuing Calibration Blank result was greater than the CRDL.
69. The reported metal analyte was rejected because this sample is not associated with a Laboratory Control Sample.
70. The laboratory made a transcription error. No hits were found in the raw data.
71. The laboratory used an incorrectly associated Method Blank. This targeted compound was not found in the Method Blank and therefore, does not need the "B" qualifier.

ATTACHMENT 4-44

72. This analyte is rejected because the laboratory exceeded the holding time for digestion and analysis.
73. The laboratory subtracted the method blank from the sample result. QA Reviewer's calculation puts the method blank back into the result.
74. The reported metal analyte is quantitatively qualified because the post-digestion spike analysis result was outside the QC limits.
75. The xeroxing is unreadable. Therefore, the QA reviewer cannot read the laboratory's reported concentration result on the OADS form.
76. This non-detect metal value was qualified because the CRDL standard was not within the recovery range (80-120 %).

ATTACHMENT 7-41

ADDENDUM TO NJDEP TARGET ANALYTE SUMMARY FOOTNOTES

77. The reported IDL and linear range information was not from the correct quarter. The results are rejected pending receipt of the updated information.

78. The raw data does not contain duplicate exposure information. Results are qualified as estimated until the proper documentation is submitted.

79. Times of analyses were not recorded on the raw data. Results are estimated pending the receipt of the run time information.

80. The percent solids raw data was not present in the package. Acceptance of the data is based upon the submission of this raw data.

81. The raw data is not present in the package. The results are rejected until the data is submitted.

82. The MSA correlation coefficient was less than 0.995 after the sample reanalysis.

83. The ICS result was greater than three times the IDL. The associated results are qualified as biased low.

84. The MSA correlation coefficient was less than 0.995 after the sample reanalysis.

85. The LCS soil result is outside of the established control limits. All associated soil samples are rejected.

86. The CRDL sample was above the CLP control limit. All positive sample results are qualified as estimated and considered to be biased high.

87. The calibration blank was analyzed before the calibration verification. All associated sample results are qualified as estimated.

88. The CRDL sample percent recovery was below the CLP control limit. All positive sample results are qualified as estimated and considered to be biased low.

89. A positive ICS result was observed for non-ICS analytes. All associated sample results  $>5x$  the ICS value are qualified as estimated.

90. A positive ICS result was observed for non-ICS analytes. All associated sample results  $<5x$  the ICS value are qualified as estimated, and could be a false positive.

91. The Post-Digestion spike recovery and subsequent reanalysis was <40%. The associated sample result is qualified as estimated due to a matrix effect.
92. The reported metal value was rejected because no Post-Digestion spike was performed on the preparation blank sample.
93. The sample result is quantitatively qualified because a solid LCS was not analyzed.
94. The sample result is quantitatively qualified because a solid preparation blank was not analyzed.
95. The sample result is qualified as estimated because the element was restandardized in the middle of an analytical run.
96. The sample holding time was exceeded by less than 10 days, all associated sample results are qualified as estimated.
97. The final QC was not analyzed during the same analytical run as the samples. All associated sample results are considered to be estimated.
98. A beginning CCV was not analyzed prior to the analytical samples. All samples up to the first CCV are qualified as estimated.
99. The sample result is qualified as estimated and could be biased low because of the negative drift in the method blank.
100. The CCB was run before the CCV, all associated sample results are qualified as estimated.
101. The serial dilution percent difference is > 100%, all associated sample results are rejected.
102. The preparation blank post digestion spike was outside the control limits. All associated sample results are rejected.
103. The post-digestion spike was not performed at the correct concentration. The associated sample results are qualified as estimated.
104. The matrix spike was not performed for all methods of analysis. All associated sample results are rejected for the method lacking a matrix spike analysis.
105. The duplicate digestion was not performed for all methods of analysis. All associated sample results are rejected for the method lacking a duplicate digestion analysis.
106. The sample analysis result was above the highest standard. All associated sample results are rejected.

107. This analyte is qualified because the laboratory exceeded the holding time for digestion and analysis.

108. The analyte is rejected because the instrument calibration standards did not include a standard at the CRDL.

109. The analyte above the CRDL for the preparation blank. All associated sample results >10x the preparation blank value are qualified.

110. The CCV was not analyzed at the correct frequency. All samples run after the tenth sample are qualified as estimated.

111. The ICSA sample was not analyzed. All associated sample results are qualified as estimated.

112. The matrix spike was performed at the wrong concentration. All associated sample results are qualified as estimated.